SDMS Document
84260

Ashland Chemical

Law Department
Stephen W. Leermakers
Senior Litigation Counsel
(614) 790-4261

Ashland Chemical Company
Division of
Ashland Inc.

Address Reply:
P.O. Box 2219
Columbus, Ohio 43216
Fax: (614) 790-4268

VIA FEDERAL EXPRESS

February 20, 1995

Mr. Lance R. Richman, P.G.
Emergency and Remedial Response Division
U.S. Environmental Protection Agency
26 Federal Plaza, Room 13-100
New York, NY 10278

RE: Request for Information Diamond Alkali Superfund Site
Passaic River Study Area

Dear Mr. Richman:

The following is in response to the Request for Information directed to Ashland Chemical Company, a division of Ashland Inc. ("Ashland"). Ashland has made every effort to provide accurate and truthful responses to your questions and we are aware that any subsequent information responsive to this request which may become available after submission of this document must be provided.

Provide the information requested below, including copies of all available documentation that supports your answers.

1) How long has your company operated at the facility designated above? If your company no longer operates at this facility, during what years did your company operate at the facility?

RESPONSE: EPA has identified two separate Ashland sites for which it is requesting information. The facility located at 221 Foundry Street was acquired by Ashland in June, 1968 and ceased operations in November, 1990. The facility located at 400 Doremus Avenue was acquired by Ashland in May, 1967 and sold in December, 1978.

2) a) Does your company have or has it in the past had a permit or permits issued pursuant to the Resource Conservation and Recovery Act, 42 U.S.C. §6901 et seq.? If "yes", please provide the years that your company held such a permit and its EPA Identification Number.

RESPONSE: Since Ashland sold the 400 Doremus Avenue facility in 1978, it has few records available or access to persons who may have been associated with

the facility. At this time no information is available concerning permits on the 400 Doremus Avenue facility.

The only information available at this time regarding permits at the 221 Foundry Street facility are the permits named in the attached documents. Ashland held a NJPDES Permit No. NJ0076651. The years during which Ashland held this permit are not known at this time.

Ashland's EPA Identification Number was NJD 060803905.

b) Does your company have or has it in the past had a permit or permits issued pursuant to the Federal Water Pollution Control Act, 33 U.S.C. §1251, et seq.? If "yes" please provide the years that your company held such a permit.

RESPONSE: Since Ashland sold the 400 Doremus Avenue facility in 1978 it has few records regarding the facility or access to persons who may have been associated with the facility. At this time no information is available concerning permits on the 400 Doremus Avenue facility.

The only information available regarding permits at the 221 Foundry Street facility are the permits named in the attached documents. Ashland held a Permit No. 20402793. The years during which Ashland held this permit are not known at this time.

3) Did your company receive, utilize, manufacture, discharge, release or dispose of any materials containing the following substances.

RESPONSE: The following information is submitted in reference to the 221 Foundry facility. The 221 Foundry Street facility may have received or utilized the following products. Submission of this information is not an admission that any of the products listed are "hazardous wastes" pursuant to CERCLA or that any of such products were discharged, released or disposed of.

	Yes	No
2,3,7,8, tetrachlorodibenzo-p-dioxin or other dioxin compounds	___	X
Methylene chloride	X	___
Methyl ethyl ketone	X	___
Benzene/ethyl benzene	X	___
Toluene	X	___
Xylene	X	___
Arsenic	___	X
Cadmium	___	X
Chromium	___	X
Copper	___	X

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	Yes	No
Lead	____	X
Nickel	____	X
Zinc	____	X

The following information is submitted in reference to the 400 Doremus Avenue. Since Ashland sold the 400 Doremus Avenue facility in 1978, it has few records regarding the facility or access to persons who may have been associated with the facility. The following products may have been received or utilized at the 400 Doremus Avenue location. At this time, no other information is available to Ashland. Submission of this information is not an admission that any of the products listed are "hazardous wastes" pursuant to CERCLA or that any of such products were discharged, released or disposed of.

	Yes	No
2,3,7,8, tetrachlorodibenzo-p-dioxin or other dioxin compounds	____Unknown____	
Methylene chloride	____Unknown____	
Methyl ethyl ketone	____Unknown ____	
Benzene/ethyl benzene	____Unknown ____	
Toluene	X	____
Xylene	X	____
Arsenic	____Unknown____	
Cadmium	____Unknown____	
Chromium	____Unknown ____	
Copper	X	____
Lead	____Unknown ____	
Nickel	____Unknown____	
Zinc	X	____

4) a) Provide a description of the manufacturing processes for which all hazardous substances, including, but not limited to, the substances listed in response to item (3), were a product or by-product.

RESPONSE: Ashland's facility at 221 Foundry Street was an Industrial Chemicals & Solvents Division ("IC&S") which was a supplier of chemicals, solvents and raw materials to industries. 221 Foundry Street was a distributions facility for virgin chemicals, for the most part manufactured by companies other than Ashland. The only "manufacturing" at 221 Foundry was the physical blending or mixing of products. Submission of this information is not an admission that any of the products are "hazardous waste" as defined by CERCLA.

The products produced at the 400 Doremus Avenue facility are described in the relevant portions of the enclosed product catalog. Since Ashland sold this facility in 1978, it has few records regarding the facility or access to persons who may have been associated with the facility. Notebooks containing the specifications of the products produced at 400 Doremus Avenue are available to review upon request at Ashland

Chemical Company, 5200 Blazer, Dublin, OH 43017. At this time, no other information is available on the 400 Doremus Avenue facility. Submission of this information is not an admission that any of the products are "hazardous waste" as defined by CERCLA.

b) During what parts of the manufacturing processes identified in the response to items (4)(a) above, were hazardous substances, including but not limited to, the substances listed in response to item (3), generated?

RESPONSE: Since the facility at 221 Foundry Street was not a manufacturing facility, it is unlikely that "hazardous waste" in any significant quantities would have been generated. If any waste was generated, it would have been in the form of line flush or off-spec product and quantities that would not be salable would have been minimal. Submission of this information is not an admission that any of the waste produced was "hazardous waste" pursuant to CERCLA.

Since Ashland sold the 400 Doremus Avenue facility in 1978, it has few records regarding the facility, or access to persons who may have been associated with the facility. No information is available at this time to respond to this request.

(i) Describe the chemical composition of these hazardous substances.

RESPONSE: See response to Question 4b.

(ii) For each process, what amount of hazardous substances was generated per volume of finished product?

RESPONSE: See response to Question 4b.

(iii) Were these hazardous substances combined with wastes from other processes? If so, wastes from what processes?

RESPONSE: See response to Question 4b.

5) Describe the methods of collection, storage, treatment and disposal of all hazardous substances, including but not limited to, the substances listed in response to item (3) and (4). Include information on the following:

a) Identify all persons who arranged for and managed the processing, treatment and disposal of hazardous substances.

RESPONSE: The processing, treatment and disposal of hazardous substances was generally under the management of the facility plant manager.

b) If hazardous substances were taken off-site by a hauler or transporter, provide the names and addresses of the waste haulers and the disposal site locations.

RESPONSE: The facility at 221 Foundry Street utilized the services of Marisol, Inc. 125 Factory Lane, Middlesex, NJ 08846 and Chemical Waste Management of New Jersey, 100 Lister Avenue, Newark, NJ.

The facility at 400 Doremus Avenue utilized the services of Scientific Chemical Processing, Inc., 411 Wilson Avenue, Newark, New Jersey 07105, Gaess Environmental Services, 253 River Drive, Passaic, New Jersey, 07055, and D.V. Chemical Carting & Processing, Lower Road, Lincoln, New Jersey.

Ashland has no other information responsive to this request at this time other than is provided in the attached documents.

c) Describe all storage practices employed by your company with respect to all hazardous substances from the time operations commenced until the present. Include all on-site and off-site storage activities.

RESPONSE: Enclosed are various documents which describe the chemicals and storage areas for the 221 Foundry Street facility. Submission of this information is not an admission that any of the products listed are "hazardous wastes" pursuant to CERCLA. Ashland has no other information available at this time.

Since Ashland sold the 400 Doremus Avenue facility in 1978, it has few records regarding the facility or access to persons who may have been associated with the facility. Enclosed is a plan which shows the storage areas at the location. Submission of this information is not an admission that any "hazardous wastes" pursuant to CERCLA was stored at the facility. At this time, no other information responsive to this question is available to Ashland.

6) a) For process waste waters generated at the facility which contained any hazardous substances, including, but not limited to, the substances listed in response to item (3) and (4):

i) Did the waste stream connect to a sanitary sewer and if so, during what years?

RESPONSE: At this time, no information is available which indicates that any process waste water would have been generated at the 221 Foundry Street location.

Since Ashland sold the 400 Doremus Avenue facility in 1978, it has few records regarding the facility or access to persons who may have been associated with the facility. Enclosed is a plot plan of the location. Submission of this information is not an admission that any "hazardous waste" pursuant to CERCLA was disposed of at the facility. At this time, no other information responsive to this question is available to Ashland.

ii) Were they treated before being discharged to the sanitary sewer and if so, how?

RESPONSE: N/A.

iii) If the waste waters were not discharged to the sanitary sewer, where were they disposed and during what years?

RESPONSE: As to the 400 Doremus Avenue facility it is not certain at this time whether any process waste waters were discharged to the sanitary sewer.

This question is not applicable to the 221 Foundry Street location.

b) For floor drains or other disposal drains at the facility:

i) Did the waste stream connect to a sanitary sewer and if so, during what years?

RESPONSE: Enclosed is the Hazardous Waste Generation Waste Minimization Report for 221 Foundry Street location which includes a plot plant and a plan of existing sewers. The plot plans indicate where the storm drains may have connected to the city sewer. At this time no information is available which indicates that any process waste water was created at that facility. Submission of this information is not an admission that any "hazardous waste" pursuant to CERCLA was disposed of at the facility.

Since Ashland sold the 400 Doremus Avenue facility in 1978, it has few records regarding the facility or access to persons who may have been associated with the facility. Enclosed is a plot plan of the location. Submission of this information is not an admission that any "hazardous waste" pursuant to CERCLA was disposed of at the facility. At this time no other information responsive to this question is available to Ashland.

ii) Was the waste stream treated before being discharged to the sanitary sewer and if so, how?

RESPONSE: At this time, there is no definite information which indicates that the 221 Foundry Street location or the 400 Doremus Avenue location discharged waste to the city sanitary sewer.

iii) If the floor drains or other disposal drains at the facility were not discharged to the sanitary sewer, where did they discharge and during what years?

RESPONSE: At this time, there is no definite information which indicates that there were any discharges at the 221 Foundry Street location or the 400 Doremus Avenue location.

c) i) Did any storm sewers, catch basins or lagoons exist at any time at the facility and if so, during what years?

RESPONSE: Enclosed is a Hazardous Waste Generator Waste Minimization Report which includes a plot plan of the 221 Foundry Street location which indicates the location of any storm sewers. It is unknown during what years they may have existed. There is no information which indicates that any lagoons existed at the facility.

Also, enclosed is a plan of the 400 Doremus Avenue facility. There is no indication that any lagoons, catch basins or storm sewers existed.

ii) If catch basins or lagoons existed, were they lined or un-lined?

RESPONSE: N/A

iii) Where was the discharge from any of these structures released and during what years? Was this discharge treated before its release and if so, how and during what years?

Ashland has no information which indicates that there was any discharge from any structures on either the property of the 221 Foundry Street facility or the 400 Doremus Avenue facility.

d) Please supply diagrams of any waste water collection or disposal systems on the property.

RESPONSE: Please see the enclosed Hazardous Waste Generation Waste Minimization Report Section II, Page 4.

Since Ashland sold the 400 Doremus Avenue facility in 1978, it has few records regarding the facility, or access to persons who may have been associated with the facility. No information responsive to this question is available to Ashland at this time.

7) a) For each hazardous substance, including, but not limited to, the substances listed in response to item (3) or identified in the responses to item (4), above, provide the total amount generated during the operation of the facility on an annual basis.

RESPONSE: Please see the enclosed documents which indicate what wastes may have been generated at the 221 Foundry Street location. Submission of this information is not an admission that any of the substances are "hazardous waste" pursuant to CERCLA.

Since Ashland sold the 400 Doremus Avenue facility in 1978, it has few records of the facility, or access to persons who may have been associated with the facility. Ashland has no information responsive to this request.

b) Were any hazardous substances, including, but not limited to, the substances listed in response to item (3) or identified in the responses to item (4), above, disposed of in the Passaic River or discharged to the Passaic River? If yes, estimate the amount of material discharged to or disposed of in the Passaic River and the frequency with which this discharge or disposal occurred.

RESPONSE: At the present time, Ashland does not have any information that would indicate that any material was disposed of in or discharged to the Passaic River by either facility.

8) Please identify any leaks, spills, explosions, fires or other incidents of accidental material discharge that occurred at the facility during which or as a result of which any hazardous substances including but not limited to, the substances listed in response to item (3) or (4), were released on the property of the facility or discharged to the Passaic River. Provide any documents or information relating to these incidents.

RESPONSE: As of the date of this response, Ashland has not been able to locate any information regarding leaks or spills at either the 221 Foundry Street or the 400 Doremus Avenue locations. Regarding the 221 Foundry Avenue location, it is believed that on December 15,1973 a pump caught fire.

With regard to the Doremus Avenue location, the following fire or explosion activity may have occurred:

1. On October 1, 1975, a fire may have occurred of spontaneous origin.

2. On August 5,1977 a fire occurred causing damage to reactor valves and gauges.

3. On August 30, 1977 another fire occurred causing reactor damage.

4. On May 22, 1978 an explosion of a phthlaic anhydride tank occurred causing a fire.

5. On September 13, 1978 a fire occurred causing reactor damage.

Submission of this information is not an admission that any of the above events generated "hazardous waste" pursuant to CERCLA or caused any releases or discharges relating to the Passaic/Diamond Site.

9) Provide the date of any leaks, spills, explosions, fires or other incidents of accidental material discharge of any hazardous substances, including, but not limited to, the substances listed in response to item (3) and (4), on the property or into the waste water discharge system at the facility. Provide details of the ultimate disposal of any contaminated materials.

RESPONSE: See response to Question 8. It is not known if any of these events generated any contaminated materials.

10) a) Was your facility ever subject to flooding. If so, was the flooding due to:

RESPONSE: As of the date of this response, Ashland has not been able to locate any information that either location was subject to flooding.

i) overflow from sanitary or storm sewer back-up, and/or

RESPONSE: See response to 10(a).

ii) flood overflow from the Passaic River?

RESPONSE: See response to 10(a).

b) Please provide the date and duration of each flood event.

RESPONSE: As of the date of this response, Ashland has been unable to locate any information responsive to this request for either facility.

11) Please provide a detailed description of any civil, criminal or administrative proceedings against your company for violations of any local, State or federal laws or regulations relating to water pollution or hazardous waste generation, storage, transport or disposal. Provide copies of all pleadings and depositions or other testimony given in these proceedings.

RESPONSE: Enclosed is a copy of an internal Notice of Violation report pertaining to notices received in connection with water or RCRA matters in connection with the subject locations. Ashland only began tracking such matters through a database several years ago, and to provide a "detailed description" of all civil, criminal or administrative proceedings" regardless of location and regardless of time frame is difficult, if not impossible, for Ashland to provide, without review of hundreds of files and without expending hundreds of hours. Ashland submits this information in a good faith effort to respond to this 104(e) Request and submission of it is not an admission that any of the items contained in the report have any bearing on the Passaic/Diamond Site.

12) Please provide a detailed description of any civil, criminal or administrative proceedings against your company for violations of any local, State or federal laws or regulations relating to water pollution or hazardous waste generation, storage, transport

or disposal. Provide copies of all pleadings and depositions or other testimony given in these proceedings.

RESPONSE: See response to Question 11.

13) Provide a copy of each document which relates to the generation, purchase, use, handling, hauling and/or disposal of all hazardous substances, including, but not limited to, the substances listed in response to item (3) or (4). If you are unable to provide a copy of any document, then identify the document by describing the nature of the document (e.g. letter, file memo, invoice, inventory form, billing record, hazardous waste manifest, etc.). Describe the relevant information contained therein. Identify by name and job title the person who prepared the document. If the document is not readily available, state where it is stored, maintained or why it is unavailable.

RESPONSE: Ashland conducts operations in approximately thirty-eight states and has twelve operating divisions. To provide the information requested in this question would overwhelm the Agency with documents and information not relevant to the subject matter of its investigation.

With regard to both locations, enclosed are documents pertaining to transactions with the waste haulers reflected in the answer to question 5(b).

14) Provide all other documents pertaining to the results of any analyses of groundwater, surface water, ambient air, and any other environmental media performed at the facility.

RESPONSE: Enclosed are documents and summaries regarding analyses conducted at the 221 Foundry Street facility. Individual reports and soil analyses documentations are extensive, but are available upon request. Ashland submits this information in a good faith effort to respond to this 104(e) Request and submission of it is not an admission that any items contained in the documents have any bearing on the Diamond Alkali/Passaic River Study.

Since Ashland sold the 400 Doremus Avenue facility in 1978, it has few records regarding the facility or access to persons who may have been associated with the facility. Therefore, Ashland has located no documents pertaining to the results of any analyses of groundwater, surface water, ambient air or any other environmental media performed at the facility.

15) a) Has your company owned the facility at the location designated above? If so, from whom did your company purchase the property and in what year? If your company subsequently sold the property, to whom did your company sell it and in what year? Please provide copies of any deeds and documents of sale.

RESPONSE: The facility at 221 Foundry Street was bought by Ashland in June of 1968 from Lasp Realty. Ashland has not sold the property.

The facility at 400 Doremus Avenue was bought from Archer-Daniels-Midland Company in may of 1967 and sold in December 1978 to Textron. Copies of the deeds are attached.

b) If your company did not own the facility, from whom did your company rent the facility and for what years? Please provide copies of any rental agreements.

RESPONSE: N/A

c) To the extent that you know, please provide the names of all parties who owned or operated the facility during the period from 1940 through the present. Describe the relationship, if any, of each of those parties with your company.

RESPONSE: Nine separate tracts of the 221 Foundry Street location were conveyed to Ashland Oil, Inc., in 1968 from Lasp Realty. Ashland became the sole stockholder of Lasp in July, 1966.

Tract I was conveyed by Lacquer Specialties, Inc. a New Jersey corporation to Lasp Realty in April, 1946. Lacquer acquired the tract in 1926 from Lewis New York Terminals.

Tract II was conveyed by Reilly Tar & Chemical to Lasp Realty in April, 1946.

Tract III was conveyed by Central Land Company to Lasp Realty in May 1946.

Tract IV was conveyed by Communipaw Central Land Company to Lasp Realty in May, 1946.

Tract V and Tract VI was conveyed by Communipaw Central Land Company to Lasp Realty in May 1952.

Tract VII was conveyed by Communipaw Central Land Company to Lasp Realty in June, 1956. In 1967, a portion of this tract was conveyed to the New Jersey Turnpike Authority in December 1967.

Tract VIII was conveyed by Central Ohio Railroad Company to Lasp Realty in June, 1961.

Tract IX was conveyed by First Manhattan Small Business Investment to Lasp Realty in October, 1964.

The property at 400 Doremus Avenue was conveyed to Archer-Daniels Midland Company by the National Distillers Products Corporation in July, 1954. In July,1951, U.S. Industrial Chemical, Inc. conveyed the property to National Distillers Products Corporation. In October of 1943, the Continental Oil Company conveyed the property to U.S. Industrial Chemical Inc.

16) Answer the following questions regarding your business or company. In identifying a company that no longer exists, provide all the information requested, except for the agent for service of process. If your company did business under more than one name, list each name.

a) State the legal name of your company.

RESPONSE: Ashland Chemical Company, a division of Ashland Inc.

b) State the name and address of the president or the chairman of the board, or other presiding officers of your company.

RESPONSE: See the enclosed Ashland Oil, Inc. annual report. (Ashland Oil, Inc. changed its name to Ashland Inc. on January 27, 1995.)

c) Identify the state of incorporation of your company and your company's agent for service of process in the state of incorporation and in New Jersey.

RESPONSE: Ashland Inc. was incorporated in the Commonwealth of Kentucky in 1936 as Ashland Oil & Refinery Company.

Service of Process in the State of Incorporation (Kentucky):

James G. Stephenson
Thomas Feazell
John Biehl
1000 Ashland Drive
Russell, KY 41169

Service of Process in the State of New Jersey:

Corporation Trust Company
820 Bear Tavern Road
West Trenton, New Jersey 08628

d) Provide a copy of your company's "Certificate of Incorporation" and any amendments thereto.

RESPONSE: Enclosed in the Second Restated Articles of Incorporation, including all amendments.

e) If your company is a subsidiary or affiliate of another company, or has subsidiaries, or is a successor to another company, identify these related companies. For each related company, describe the relationship to your company; indicate the date and manner in which each relationship was established.

RESPONSE: Enclosed is a list of Ashland Inc.'s first level subsidiaries. With regard to predecessors and successors, Ashland, Inc. of which Ashland Chemical is a division, has acquired hundreds of companies since its incorporation in 1936. Some of these acquisitions were asset transactions and some of them were stock transactions. Ashland Chemical was formed in the late 1960's, primarily through the acquisition of all or part of three companies: Catalin Corporation, F.H. Ross, and the chemical business of Archer-Daniels-Midland. Ashland Inc.'s primary business since its inception has been the refining, distribution and marketing of petroleum products and in 1969 it reorganized its petroleum operations into the Petroleum division, Ashland's largest operating division. Ashland's acquisition and merger documents are voluminous and are available for copying and inspection upon reasonable notice at Ashland's headquarters, located in Ashland, Kentucky.

f) Identify any predecessor organization and the dates that such company became part of your company.

RESPONSE: See response to Question 16(e) above.

g) Identify any other companies which were acquired by your company or merged with your company.

RESPONSE: See response to Question 16(e) above.

h) Identify the date of incorporation, state of incorporation, agents for service of process in the state of incorporation and New Jersey, and nature of business activity, for each company identified the responses to items (11) (e), (f), and (g) above.

RESPONSE: See response to Question 16(e) above.

(i) Identify all previous owners or parent companies, address, and the date change in ownership occurred.

RESPONSE: See response to Question 16(e) above.

17) Provide the name, address, telephone number, title and occupation of the person(s) answering this "Request for Information" and state whether such person(s) has personal knowledge of the responses. In addition, identify each person who assisted in any way in responding to the "Request for Information" and specify the question to which each person assisted in responding.

RESPONSE: Stephen W. Leermakers
Senior Litigation Counsel
Ashland Chemical Company, a division of Ashland Inc.

P.O. Box 2219
Columbus, Ohio 43215

Karen Hill
Legal Assistant
Ashland Chemical Company, division of Ashland Oil, Inc.
P.O. Box 2219
Columbus, Ohio 43215

In replying to this Request, Ashland Chemical Company has not and shall not be deemed to have admitted any liability or responsibility with respect to the Site, the subject matter of the Request or any other matter. If, following your review EPA has questions concerning any response herein, please contact me.

Very truly yours,

S W Leermakers

Stephen W. Leermakers

/nj

Enclosures

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Ashland

Ashland Chemical Company
DIVISION OF ASHLAND OIL, INC.

P.O. BOX 2219, COLUMBUS, OHIO 43216 • (614) 889-3333

ENGINEERING DEPARTMENT
W.L. Tordoff
Director of Engineering

January 14, 1988

Mr. Valentine Kouame
Division of Water Resources
New Jersey Department of
Environmental Protection
P.O. Box CN029
Trenton, NJ 08625

Dear Mr. Kouame:

Confirming our phone conversation on December 17, Ashland Chemical's Newark Industrial Chemicals and Solvents Division Plant has not used its elementary neutralization unit since August 1987 and does not intend to use it in the future. This unit was used for collecting rinsewater from empty drums of acids and caustics. We are no longer drumming acids and caustics and, therefore, are not generating any rinsewater to treat. We are purchasing our acids and bases in drums from the manufacturer.

The tank is below grade and is serving as a sump for rainwater at the plant. Therefore, the rainwater will be pumped to the sewer in the spring/summer when the weather is better and the tank will be removed or filled with sand or another aggregate material. Confirming our conversation there are no additional requirements in removing or filling this tank.

If you have further questions on this, feel free to call me on 614/889-3695.

Sincerely,

Arlene A. Hendrickson
Environmental Engineer

AAH:dli

bc: G. W. Hammer
T. A. Goodwin
R. S. Gose
R. Davidson
R. L. Bever
WLT/RCS
E-7940

Ashland's Commitment
to Quality and Productivity

842600015

Ashland

Ashland Chemical Company

DIVISION OF ASHLAND OIL, INC.

P. O. BOX 2219, COLUMBUS, OHIO 43216 • (614) 889-3333

ENGINEERING DEPARTMENT
R. O. Spooner
Director of Engineering

June 7, 1985

U.S. EPA Region II
26 Federal Plaza
New York, NY 10278

Dear Sir or Madam:

Enclosed is a revised Part A application Form 1 General Information which reflects the change of address of the office for our Newark, New Jersey Industrial Chemicals & Solvents Division Plant (NJD060803905).

If you have any questions, please feel free to call me at 614/889-3695.

Sincerely,

Arlene A. Hendrickson

Arlene A. Hendrickson
Environmental Engineer

AAH:dli
Enclosure

bc: F. Abraham
R. Severns
ROS/RCS
E-7940

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CONTINUED FROM THE FRONT

VII. SIC CODES (4-digit, in order of priority)

A. FIRST	B. SECOND
5161 Chemicals and Allied Products	5172 Petroleum and Petroleum Products

C. THIRD	D. FOURTH
(specify)	(specify)

VIII. OPERATOR INFORMATION

A. NAME: Ashland Chemical Company

B. Is the name listed in Item VIII-A also the owner? [X] YES [ ] NO

C. STATUS OF OPERATOR (Enter the appropriate letter into the answer box; if "Other", specify.)
F = FEDERAL; S = STATE; P = PRIVATE; M = PUBLIC (other than federal or state); O = OTHER (specify)
P (specify)

D. PHONE (area code & no.): A 201 344 3344

E. STREET OR P.O. BOX: Suite 232, 2025 Lincoln Highway

F. CITY OR TOWN: Edison

G. STATE: NJ

H. ZIP CODE: 08817

IX. INDIAN LAND

Is the facility located on Indian lands? [ ] YES [X] NO

X. EXISTING ENVIRONMENTAL PERMITS

A. NPDES (Discharges to Surface Water)	D. PSD (Air Emissions from Proposed Sources)
9 N	9 P

B. UIC (Underground Injection of Fluids)	E. OTHER (specify)
9 U	9 (specify)

C. RCRA (Hazardous Wastes)	E. OTHER (specify)
9	9 (specify)

XI. MAP

Attach to this application a topographic map of the area extending to at least one mile beyond property bounderies. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in the map area. See instructions for precise requirements.

XII. NATURE OF BUSINESS (provide a brief description)

Ashland Chemical's Industrial Chemicals and Solvents Division plants are distributors and repackagers of industrial chemcials and solvents. There is bulk tank storage of some chemicals and solvents which are sold in bulk and 55-gallon drums.

XIII. CERTIFICATION (see instructions)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, 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.

A. NAME & OFFICIAL TITLE (type or print)	B. SIGNATURE	C. DATE SIGNED
Olney G. Parsons, Vice-President & General Manager, IC&S Division	Olney G. Parsons	6/10/83

COMMENTS FOR OFFICIAL USE ONLY

C

EPA Form 3510-1 (6-80) REVERSE

842600017

*Please print or type with ELITE type *(12 characters/inch)* in the unshaded areas only.

Form Approved OMB No. 158-S79016
GSA No. 0246-EPA-OT

EPA

U.S. ENVIRONMENTAL PROTECTION AGENCY

NOTIFICATION OF HAZARDOUS WASTE ACTIVITY

INSTALLATION'S EPA I.D. NO.

I. NAME OF INSTALLATION

II. INSTALLATION MAILING ADDRESS

III. LOCATION OF INSTALLATION

PLEASE PLACE LABEL IN THIS SPACE

INSTRUCTIONS: If you received a preprinted label, affix it in the space at left. If any of the information on the label is incorrect, draw a line through it and supply the correct information in the appropriate section below. If the label is complete and correct, leave Items I, II, and III below blank. If you did not receive a preprinted label, complete all items. "Installation" means a single site where hazardous waste is generated, treated, stored and/or disposed of, or a transporter's principal place of business. Please refer to the INSTRUCTIONS FOR FILING NOTIFICATION before completing this form. The information requested herein is required by law *(Section 3010 of the Resource Conservation and Recovery Act)*.

DETACH

FOR OFFICIAL USE ONLY

COMMENTS

INSTALLATION'S EPA I.D. NUMBER | APPROVED | DATE RECEIVED (yr., mo., & day)

F | T/A | C | 1

I. NAME OF INSTALLATION

ASHLAND CHEMICAL COMPANY

II. INSTALLATION MAILING ADDRESS

STREET OR P.O. BOX

3 HILLEN 12 HIGH STREET

CITY OR TOWN | ST. | ZIP CODE

4 BALTIMORE | MD | 21202

III. LOCATION OF INSTALLATION

STREET OR ROUTE NUMBER

5 SAME

CITY OR TOWN | ST. | ZIP CODE

6

IV. INSTALLATION CONTACT

NAME AND TITLE *(last, first, & job title)* | PHONE NO. *(area code & no.)*

2 HENDRICKSON, ARLENE | 614-889-3695

V. OWNERSHIP

A. NAME OF INSTALLATION'S LEGAL OWNER

8 ASHLAND OIL, INC.

B. TYPE OF OWNERSHIP *(enter the appropriate letter into box)*

F = FEDERAL
M = NON-FEDERAL

M

VI. TYPE OF HAZARDOUS WASTE ACTIVITY *(enter "X" in the appropriate box(es))*

- [X] A. GENERATION
- [ ] B. TRANSPORTATION *(complete item VII)*
- [X] C. TREAT/STORE/DISPOSE
- [ ] D. UNDERGROUND INJECTION

VII. MODE OF TRANSPORTATION *(transporters only – enter "X" in the appropriate box(es))*

- [ ] A. AIR
- [ ] B. RAIL
- [ ] C. HIGHWAY
- [ ] D. WATER
- [ ] E. OTHER *(specify)*:

VIII. FIRST OR SUBSEQUENT NOTIFICATION

Mark "X" in the appropriate box to indicate whether this is your installation's first notification of hazardous waste activity or a subsequent notification. If this is not your first notification, enter your installation's EPA I.D. Number in the space provided below.

- [X] A. FIRST NOTIFICATION
- [ ] B. SUBSEQUENT NOTIFICATION *(complete item C)*

C. INSTALLATION'S EPA I.D. NO.

IX. DESCRIPTION OF HAZARDOUS WASTES

Please go to the reverse of this form and provide the requested information.

842600018

C. Commercial Chemical Product Hazardous Waste (Continued)

U070	U071	U072	U088	U092	U102
U103	U107	U108	U110	U112	U117
U122	U123	U125	U134	U140	U147
U154	U159	U160	U165	U171	U189
U190	U194	U210	U211	U213	U219
U220	U223	U226	U228	U239	

842600019

Please print or type in the unshaded areas only
(fill-in areas are spaced for elite type, i.e., 12 characters/inch).

Form Approved OMB No. 158-R0175

FORM 1 GENERAL

EPA

U.S. ENVIRONMENTAL PROTECTION AGENCY

GENERAL INFORMATION

Consolidated Permits Program

(Read the "General Instructions" before starting.)

I. EPA I.D. NUMBER

F N J D 0 6 0 8 0 3 9 0 5

GENERAL INSTRUCTIONS

If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data in the appropriate fill-in area below. Also, if any of the preprinted data is absent (the area to the left of the label space lists the information that should appear), please provide it in the proper fill-in area(s) below. If the label is complete and correct, you need not complete items I, III, V, and VI (except VI-B which must be completed regardless). Complete all items if no label has been provided. Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected.

LABEL ITEMS

- I. EPA I.D. NUMBER
- III. FACILITY NAME
- V. FACILITY MAILING ADDRESS
- VI. FACILITY LOCATION

PLEASE PLACE LABEL IN THIS SPACE

II. POLLUTANT CHARACTERISTICS

INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of bold-faced terms.

SPECIFIC QUESTIONS	MARK 'X' YES	NO	FORM ATTACHED
A. Is this facility a publicly owned treatment works which results in a discharge to waters of the U.S.? (FORM 2A)		X	
B. Does or will this facility (either existing or proposed) include a concentrated animal feeding operation or aquatic animal production facility which results in a discharge to waters of the U.S.? (FORM 2B)		X	
C. Is this a facility which currently results in discharges to waters of the U.S. other than those described in A or B above? (FORM 2C)		X	
D. Is this a proposed facility (other than those described in A or B above) which will result in a discharge to waters of the U.S.? (FORM 2D)		X	
E. Does or will this facility treat, store, or dispose of hazardous wastes? (FORM 3)	X		X
F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)		X	
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)		X	
H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)		X	
I. Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X	
J. Is this facility a proposed stationary source which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X	

III. NAME OF FACILITY

1 SKIP Ashland Chemical Company

IV. FACILITY CONTACT

A. NAME & TITLE (last, first, & title)	B. PHONE (area code & no.)
2 Hendrickson Arlene A Envr. Engr.	614 889 3695

V. FACILITY MAILING ADDRESS

A. STREET OR P.O. BOX		
3 Suite 232, 2025 Lincoln Highway		
B. CITY OR TOWN	**C. STATE**	**D. ZIP CODE**
4 Edison	NJ	08817

VI. FACILITY LOCATION

A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER			
5 221 Foundry Street			
B. COUNTY NAME			
Essex			
C. CITY OR TOWN	**D. STATE**	**E. ZIP CODE**	**F. COUNTY CODE (if known)**
6 Newark	NJ	07105	

EPA Form 3510-1 (6-80)

842600020

CONTINUE ON REVER

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF HAZARDOUS WASTE MANAGEMENT
HAZARDOUS WASTE GENERATOR WASTE MINIMIZATION REPORT: 1987

COMPANY: Ashland Chemical Co. (Name) EPA ID NO.: NJD0608 03905

MAILING ADDRESS: 2225 Lincoln Hwy # 232 Edison, NJ 08817
(Street) (City) (State/Zip Code)

LOCATION OF GENERATOR SITE: 22 Factory St Newark, NJ 07105
(If different from mailing address)

CONTACT PERSON: T. A Gaidwin 201-287-3344
(Name) (Telephone Number)

TA Gaidwin DISTRICT MANAGER
(Signature) (Title)

PART I – PLEASE COMPLETE THE FOLLOWING SURVEY AND REPORT. FOR ASSISTANCE CALL (609) 292-8341

1. Did this site create or expand a source reduction and recycling program?

		Prior Years		1986		1987	
		Yes	No	Yes	No	Yes	No
Create	D/K	☐	☐	☑	☐	☐	☐
Expand		☐	☐	☐	☐	☑	☐

2. Did this site have a written policy or statement that outlined goals, objectives and methods for source reduction and recycling of hazardous waste?

		Prior Years	1986	1987
Yes	D/K	☐	☑	☑
No		☐	☐	☐

3. What was the dollar amount of capital expenditures (plant and equipment) and operating costs devoted to source reduction and recycling of hazardous waste? Enter zero (0) if none.

	Prior Years	1986	1987
Capital expenditures	$ -0-	$ -0-	$ -0-
Operating costs	$ D/K	$ D/K	$ D/K

4. Did this site have an employee training program or provide incentives (bonuses, awards, personal recognition, etc.) to identify and implement source reduction and recycling opportunities and activities?

		Prior Years		1986		1987	
		Yes	No	Yes	No	Yes	No
Training	D/K	☐	☐	☑	☐	☑	☐
Incentives		☐	☐	☐	☑	☐	☐

5. Did this site conduct a source reduction and/or recycling opportunity assessment or audit? Note: an opportunity assessment or audit is a procedure that can be implemented to reduce the generation of hazardous waste or the quantity which must subsequently be treated, stored or disposed.

	Prior Years		1986		1987	
	Yes	No	Yes	No	Yes	No
Site-Wide	☐	☐	☑	☐	☑	☐
Process-Specific	☐	☐	☑	☐	☑	☐

6. Did this site identify or implement new SOURCE REDUCTION opportunities to reduce the volume and/or toxicity of hazardous waste generated at this site?

	Prior Years		1986		1987	
	Yes	No	Yes	No	Yes	No
Identify	☐	☐	☑	☐	☑	☐
Implement	☐	☐	☑	☐	☑	☐

7. What factors have delayed or prevented implementation of SOURCE REDUCTION opportunities. MARK ☒ FOR ALL THAT APPLY.

- ☒ a. Insufficient capital to install new source reduction equipment or implement new source reduction practices.
- ☐ b. Lack of technical information on source reduction techniques, applicable to my specific production processes.
- ☒ c. Source reduction is not economically feasible: cost savings in waste management or production will not recover the capital investment.
- ☒ d. Concern that product quality may decline as a result of source reduction.
- ☐ e. Technical limitations of the production processes.
- ☐ f. Permitting burdens.
- ☐ g. Other (Specify) _____

8. Did this site identify or implement new RECYCLING opportunities to reduce the volume and/or toxicity of hazardous waste generated at this site or subsequently treated, stored, or disposed of on site or off site?

	Prior Years		1986		1987	
	Yes	No	Yes	No	Yes	No
Identify	☐	☐	☑	☐	☑	☐
Implement	☐	☐	☑	☐	☑	☐

9. What factors have delayed or prevented implementation of on-site or off-site RECYCLING opportunities. MARK ☒ FOR ALL THAT APPLY.

- ☒ a. Insufficient capital to install new recycling equipment or implement new recycling practices.
- ☐ b. Lack of technical information on recycling techniques applicable to this site's specific productiuon processes.
- ☒ c. Recycling is not economically feasible: cost savings in waste management or production will not recover the capital investment.
- ☒ d. Concern that product quality may decline as a result of recycling.
- ☐ e. Requirements to manifest wastes inhibit shipments off site for recycling.
- ☐ f. Financial liability provisions inhibit shipments off site for recycling.
- ☐ g. Technical limitations of product processes inhibit shipments off site for recycling.
- ☐ h. Technical limitations of production processes inhibit on-site recycling.
- ☐ i. Permitting burdens inhibit recycling.
- ☐ j. Lack of permitted off-site recycling facilities.
- ☒ k. Unable to identify a market for recyclable materials.
- ☐ l. Other (Specify) _____

10. Has this site requested or received technical information or financial assistance on source reduction and/or recycling practices from any of the following sources? MARK ☒ FOR ALL THAT APPLY.

	Prior Years		1986		1987	
	Technical	Financial	Technical	Financial	Technical	Financial
a. Local government N/K	☐	☐	☐	☐	☐	☐
b. State government	☐	☐	☐	☐	☐	☐
c. Federal government	☐	☐	☐	☐	☐	☐
d. Trade associations	☐	☐	☐	☐	☐	☐
e. Educational institutions	☐	☐	☐	☐	☐	☐
f. Suppliers	☐	☐	☐	☐	☐	☐
g. Other parts of your firm	☐	☐	☒	☒	☒	☒
h. Other firms/consultants	☐	☐	☐	☐	☐	☐
i. No request made	☐	☐	☐	☐	☐	☐
j. Other (conferences, literature, etc.)_____	☐	☐	☐	☐	☐	☐

Comments:

842600024

PART II: 1987 WASTE MINIMIZATION REPORT DATA: SAMPLE DATA

Explanations and Sample Calculations:

New Jersey Waste Number	1986 Amt of Waste & Unit	1986 Amt Waste / Unit of Production	1987 Amt of Waste & Unit	1987 Amt Waste / Unit of Production	Unit of Production	Increase or Decrease of Amt Waste / Unit of Production	Reduction Code(s)	Disposal Code
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

The examples of waste minimization in sample data shown in this section serve as useful guidelines for understanding how to categorize your firm's waste stream for reporting. Note that the SIC Code Source Code, Process Description and Product Produced is not shown in this section, but must be reported on the actual report form.

Explanation of Sample Data

No. 1 and No. 2 are both F001 wastes. They have been reported separately to identify stream No.1 as the waste from a manufacturing process and stream No.2 as a one time spill cleanup residue which was also classified as F001. This distinction is important to the proper reporting on a production unit basis of the amount of F001 waste actually attributable to the manufacturing process. Note that the REDUCTION CODES selected identify waste stream No.1 as being reduced on a unit basis due to equipment or technological modifications (3) and stream No.2 as a one time cleanup residue (11).

No. 3 depicts a waste stream that was eliminated entirely in 1986 by reformulating the product. This corresponds with REDUCTION CODE (5).

No. 4 depicts a waste stream that increased on a production unit basis from the prior year. REDUCTION CODES indicate that this was due to raw material substitution (6) which resulted in more waste being produced per production unit but of a less toxic nature (8).

No. 5 depicts waste oil that showed an increase in generation perproduction unit from the prior year REDUCTION CODE (12) indicates that an explanation of this increase is attached on the SIS. Such an increase in generation could perhaps be due to falling production levels while continuing routine changes of lubricating engine oils on a periodic basis.

9

842600025

PART II: 1987 WASTE MINIMIZATION REPORT DATA

Explanations and Sample Calculations:

New Jersey Waste Number	1986 Amt of Waste & Unit	1986 Amt Waste / Unit of Production	1987 Amt of Waste & Unit	1987 Amt Waste / Unit of Production	Unit of Production	Increase or Decrease of Amt Waste / Unit of Production	Reduction Code(s)	Disposal Code
See NJAC 7:26-8.9 -8.16	Total Waste generated in 1986 & unit of waste	Divide Waste generated by unit of product produced	Total Waste generated in 1987 & unit of waste	Divide Waste generated by unit of product produced	PR= Product SD= Sales $ LH= Labor Hours RM= Raw Materials Used	0.044 p/PR 1987 -0.051 p/PR 1986 - 0.07 p/PR {Waste (p) reduced 0.07 per unit of production (PR)}	See Pg 4 for explanation and legend	See Pg 5 for explanation and legend

Sample Data:

F006	335 p	335 p / 6000 PR = 0.051 p/PR	420 p	420 p / 9600 PR = 0.044 p/PR	PR	-0.07 p/PR	3	RF
SIC CODE for Waste Stream No 1 - 3679			Product Produced - Circuit Boards				Source Code - I	
PROCESS DESCRIPTION - Wastewater Treatment Sludge from Electroplating						PROJECTED % RED./CODE(S) - 15%/3.4		

*** For further SAMPLE DATA and an explanation of SAMPLE DATA see Page 9.** Enter your data below.

1. 0001	43238 G	N/A	206 G	N/A	N/A	43,032 G	7	CF
SIC CODE for Waste Stream No 1 - 5169			Product Produced - N/A				Source Code - F	
PROCESS DESCRIPTION - N/A						PROJECTED % RED./CODE(S) - N/A		
2. F003 F005	0	N/A	6800G	N/A	N/A	6800 G	7	CF
SIC CODE for Waste Stream No 2 - 5169			Product Produced -				Source Code - F	
PROCESS DESCRIPTION - N/A						PROJECTED % RED./CODE(S) - N/A		
3.								
SIC CODE for Waste Stream No 3 -			Product Produced -				Source Code -	
PROCESS DESCRIPTION -						PROJECTED % RED./CODE(S) -		
4.								
SIC CODE for Waste Stream No 4 -			Product Produced -				Source Code -	
PROCESS DESCRIPTION -						PROJECTED % RED./CODE(S) -		
5.								
SIC CODE for Waste Stream No 5			Product Produced -				Source Code -	
PROCESS DESCRIPTION -						PROJECTED % RED./CODE(S) -		

* Chemical Distributor; No Production

10

10

842600026

PART II: 1987 WASTE MINIMIZATION REPORT DATA

Explanations and Sample Calculations:

New Jersey Waste Number	1986 Amt of Waste & Unit	1986 Amt Waste / Unit of Production	1987 Amt of Waste & Unit	1987 Amt Waste / Unit of Production	Unit of Production	Increase or Decrease of Amt Waste / Unit of Production	Reduction Code(s)	Disposal Code
See NJAC 7:26-8.9 -8.16	Total Waste generated in 1986 & unit of waste	Divide Waste generated by unit of product produced	Total Waste generated in 1987 & unit of waste	Divide Waste generated by unit of product produced	PR= Product SD= Sales $ LH= Labor Hours RM= Raw Materials Used	0.044 p/PR 1987 -0.051 p/PR 1986 - 0.07 p/PR {Waste (p) reduced 0.07 per unit of production (PR)}	See Pg 4 for explanation and legend	See Pg 5 for explanation and legend

Sample Data:

F006	335 p	335 p / 6000 PR = 0.051 p/PR	420 p	420 p / 9600 PR = 0.044 p/PR	PR	-0.07 p/PR	3	RF
SIC CODE for Waste Stream No 1 - 3679			Product Produced - Circuit Boards				Source Code - I	
PROCESS DESCRIPTION - Wastewater Treatment Sludge from Electroplating						PROJECTED % RED./CODE(S) - 15%/3,4		

*** For further SAMPLE DATA and an explanation of SAMPLE DATA see Page 9.** Enter your data below.

1. [illegible]	43238 6	n/a	2069	n/a	n/a	4 [illegible]	7	[illegible]
SIC CODE for Waste Stream No 1 - 5[illegible]			Product Produced - n/a				Source Code - F	
PROCESS DESCRIPTION - n/a						PROJECTED % RED./CODE(S) - n/a		
2. [illegible]	[illegible]	n/a		n/a	n/a	[illegible]	-1	[illegible]
SIC CODE for Waste Stream No 2 -			Product Produced -				Source Code -	
PROCESS DESCRIPTION - n/a						PROJECTED % RED./CODE(S) - n/a		
3.								
SIC CODE for Waste Stream No 3 -			Product Produced -				Source Code -	
PROCESS DESCRIPTION -						PROJECTED % RED./CODE(S) -		
4.								
SIC CODE for Waste Stream No 4 -			Product Produced -				Source Code -	
PROCESS DESCRIPTION -						PROJECTED % RED./CODE(S) -		
5.								
SIC CODE for Waste Stream No 5 -			Product Produced -				Source Code -	
PROCESS DESCRIPTION -						PROJECTED % RED./CODE(S) -		

* chemical [illegible]

10

New Jersey Department of Environmental Protection
Division of Hazardous Waste Management

Hazardous Waste Generator Waste Administration Report 1986/87
SUPPLEMENTAL INFORMATION SHEET NUMBER ( ) OF ( ).
EPA ID NO._____

N/A

842600027

MEMORANDUM

TO: T. A. Goodwin

DATE: May 12, 1988

FROM: A. A. Hendrickson

CC: J. Parzych
G. W. Hammer
R. S. Gose
R. L. Bever
WLT/RCS
E-7940

SUBJECT: Status of Newark, NJ, IC&S Neutralization Unit

The attached letter from the NJDEP states that the neutralization unit at Newark is not regulated under the New Jersey Water Pollution Control Act nor the Industrial Waste Management Facility requirements of the NJPDES. This is based on information we supplied to the NJDEP that the neutralization tank will be removed or filled with sand/aggregate this spring or summer. Has this been done yet?

Keep a copy of this in your environmental file.

Arlene Hendrickson

AAH:dli
Attachment

842600028

MAR 07 1988

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
CN 029
TRENTON, NEW JERSEY 08625

GEORGE G. McCANN, P.E.
DIRECTOR

DIRK C. HOFMAN, P.E.
DEPUTY DIRECTOR

Ms. Arlene A. Hendrickson
Environmental Engineer
Ashland Chemical Company
P.O. Box 2219
Columbus, OHIO 43216

MAR 02 1988

Dear Ms. Hendrickson:

RE: Determination of Non-RCRA/Non-IWMF Status
Ashland Chemical Company, Newark, New Jersey
EPA I.D. No. NJD 060 803 905

This is in response to a memo to the Industrial Pretreatment Section, dated November 5, 1987, from the Bureau of Hazardous Waste Engineering, concerning the classification of Ashland Chemical Company as an Industrial Waste Management Facility (IWMF).

The "wastewater treatment unit" (T01 hazardous activity), for which your company filed a RCRA Part A application as a treatment facility, is not under the scope of the New Jersey Water Pollution Control Act, N.J.S.A. 58:10A-1.1 et seq. because it is no longer in operation. Since Ashland Chemical Company does not treat any wastewater, it is not subject to the Industrial Waste Management Facility (IWMF) requirements of Subchapter 4 of the New Jersey Pollutant Discharge Elimination System (NJPDES) Regulations, N.J.A.C. 7:14A-1.1 et seq. Enclosed is an IWMF worksheet which shows the basis of our determination.

This action does not relieve Ashland Chemical Company of the responsibility for complying with:

(1) the Passaic Valley Sewerage Commissioners local sewer ordinance or regulations concerning surface water run-off discharge, and

(2) the hazardous waste generation and accumulation requirements of the New Jersey Hazardous Waste Regulations, N.J.A.C. 7:26-1 et seq. for any other hazardous waste that may be generated on-site.

If there are any questions pertaining to this letter, please contact Valentin Kouame of my staff at (609) 292-4860.

Sincerely,

Mary Jo M. Aiello

Mary Jo M. Aiello, Acting Chief
Industrial Pretreatment Section
Bureau of Industrial Waste Management

WQM216:vk

c: Ernest J. Kuhlwein, Jr. - DHWM
Shirlee Schiffman - DWHM
Joel Golumbek - EPA Region II
Frank D'Ascensio - PVSC

842600030

INDUSTRIAL WASTE MANAGEMENT FACILITY (IWMF) WORKSHEET

1. Name: ASHLAND CHEMICAL COMPANY
   Mailing Address: P.O. BOX 2219 COLUMBUS, OHIO 43216
   Location Address: 221 FOUNDRY ST., NEWARK, NEW JERSEY 07105
   Facility Contact: JOHN PARZYCH
   Telephone No.: (201) 344-3333 RCRA ID No.: NJD060803905
   Facility NJPDES No.: _____ Type: ___DSW ___DGW ___SIU X None
   Receiving POTW, if any: PVSC POTW NJPDES No. NJ0021016

2. Description of Waste Source(s): N/A

3. The Waste Source is:

   ___ Intracompany/Intrastate ___ Intercompany/Intrastate

4. Operational Units comprising the treatment works (describe):

   Unit #1: THE HAZARDOUS ACTIVITY T01 HAS BEEN
   Unit #2:
   Unit #3: ELIMINATED. THEREFORE, THERE IS NO
   Unit #4:
   Unit #5: PRETREATMENT OF WASTEWATER.
   Unit #6:
   Unit #7:
   Unit #8:

5. Criteria (For each item indicate Yes, No, N/A, etc.):

   a. Is there an influent wastewater? NO
      Is it hazardous? N/A
      If yes, list waste type. N/A

   b. Does the treatment works generate (G), store (S), or treat (T) a wastewater treatment sludge or residue? N/A
      If yes, which units are involved, and what function do they perform? N/A
      Is it hazardous? N/A
      If yes, list waste type(s): N/A

   c. Is the unit a "tank" as per NJAC 7:14A-4.3? N/A

6. Conclusions: Is the facility an IWMF? NO

7. Comments: THE FACILITY IS NOT A HAZARDOUS WASTE FACILITY (HWF) BECAUSE IT WILL STORE CONTAINERIZED/DRUMMED HAZARDOUS WASTES FOR LESS THAN NINETY (90) DAYS. THIS INFORMATION HAS BEEN PROVIDED BY THE BUREAU OF HAZARDOUS WASTE ENGINEERING.

842600031

OMB#: 2050-0005 Expires: 1-31-83

1981 STATUS SHEET FOR NON-REGULATED GENERATORS

INSTRUCTIONS: THIS SHEET MUST BE COMPLETED ONLY BY INSTALLATIONS THAT NOTIFIED EPA OF HAZARDOUS WASTE ACTIVITY UNDER SECTION 3010 OF RCRA BUT DID NOT HANDLE REGULATED QUANTITIES OF HAZARDOUS WASTE AT ANY TIME DURING 1981 AND ARE NOT REQUIRED TO COMPLETE THE 1981 GENERATOR ANNUAL REPORT. If you received a preprinted label attached to the envelope in which this form was enclosed, affix it in the space provided, circle the appropriate code in section S-IV, sign the certification at the bottom of this page and return it to your EPA Regional Office by January 10, 1983 in the return envelope provided. If any of the information on the label is incorrect, draw a line through it and provide the correct information in the appropriate section below. If you did not receive a preprinted label, complete all sections.

AFFIX LABEL HERE

S-I. GENERATOR'S EPA I.D. NUMBER

1	2											13	14	15
F	N	J	D	0	6	0	8	0	3	9	0	5	T/A	C
														1

S-II. NAME OF FACILITY

30																																						69
A	S	H	L	A	N	D		C	H	E	M	I	C	A	L		C	O	M	P	A	N	Y																

S-III. FACILITY MAILING ADDRESS

15	16																																						45
3	2	2	1		F	O	U	N	D	R	Y		S	T	R	E	E	T																						

Street or P.O. Box

| 15 | 16 | | | | | | | | | | | | | | | | | | |

Ashland

Ashland Chemical Company

DIVISION OF ASHLAND OIL, INC.

P. O. BOX 2219, COLUMBUS, OHIO 43216 • (614) 889-3333

ENGINEERING DEPARTMENT
R. O. Spooner
Director of Engineering

October 3, 1983

Saint James Hospital
155 Jefferson Street
Newark, New Jersey 07105

Dr. J. Siegel
60 Park Place
Newark, New Jersey 07102

Newark Police Department
East District
649 Market Street
Newark, New Jersey 07105

Newark Fire Department
Ferry Street
Newark, New Jersey 07105

N.J. DEP - Bureau Of Hazardous Waste
32 East Hanover Street
Trenton, New Jersey 08625 (CN-027)

Subject: Contingency Plan And Emergency Procedures For:

Ashland Chemical Company
Division Of Ashland Oil, Inc.

Plant is located at:

221 Foundry Street
Newark, New Jersey 07105

As required by the regulations under the Resource Conservation and Recovery Act Of 1976 (RCRA) 40 CFR Part 265.33 of Subpart D, we are submitting copies of this Contingency Plan to all local Police Department, Fire Department, hospitals, state and local Emergency Response Teams. In order to comply with this regulation, we have sent by Certified Mail, copies to the following agencies:

(1) NJ DEP - Bureau Of Hazardous Wastes
(2) Newark Police Department
(3) Newark Fire Department
(4) Saint James Hospital

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Any questions concerning this plan should be addressed to Ashland Chemical Company, 221 Foundry Street, Newark, New Jersey 07105 (201/344-3333).

Thank you for your cooperation.

Very truly yours,

Michael McCann
District Manager

MM/cmg

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ASHLAND CHEMICAL COMPANY

INDUSTRIAL CHEMICAL & SOLVENT DISTRIBUTOR

221 Foundry Street
Newark, New Jersey 07105

EPA Identification Number NJD060803905

Generator
Transporter
Storage
Treatment

842600035

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842600036

CONTINGENCY PLAN AND EMERGENCY PROCEDURES

The following contingency plan describes the facility's response to a fire, explosion, or release of hazardous waste.

This plan is kept on file at the plant site. The plan has been submitted to local police and fire departments, hospitals and state and local emergency response teams that may be called upon to provide emergency services.

This plan must be amended whenever:

(1) The facility permit is revised.

(2) The plan fails in an emergency.

(3) The facility changes in design, construction, operation, maintenance or in any way that increases the potential for fire, explosions or release of hazardous wastes or changes the response necessary in an emergency.

(4) The list of emergency coordinators changes.

(5) The list of emergency equipment changes.

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EMERGENCY COORDINATOR

The primary emergency coordinator of the plant is the District Manager. However, in his absence both the Plant Manager and Office Manager will act as emergency coordinators.

In the absence of the above listed individuals, all plant and office personnel are familiar with the Contingency Plan and the Emergency Procedures and are authorized to act as emergency coordinators.

In addition to local plant personnel, Ashland maintains a 24-hour emergency reporting operator in Ashland, Kentucky (1-606/324-1133). This operator has names and phone numbers of back-up personnel who can be contacted in the event of an emergency.

The following is a current list in the order in which they will assume responsibility as alternates.

Title/Names & Address	Home Phone	Office Phone
Michael J. McCann District Manager	212/229-0537	201/344-3333
William Elsasser Plant Manager	201/994-0263	201/344-3333
Fred Abraham Regional Waste Administrator	201/354-7494	201/344-3333
Martin Kowalski Office Manager	201/583-8677	201/344-3333

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EMERGENCY PROCEDURES

The emergency coordinator or the designated alternate should follow the emergency procedures outlined below:

I. Whenever there is an imminent or actual emergency situation, the emergency coordinator must immediately:

A. Activate internal plant alarms or communication systems to notify all plant personnel, and

B. Notify appropriate State or local agencies as needed.

II. Whenever there is a release, fire or explosion, the emergency coordinator must immediately:

A. Identify the released materials.

B. Identify the source of the released materials.

C. Identify the amount of the released materials.

D. Identify the real extent of the released materials.

He may do this by observation or review of plant records or manifests and, if necessary, by chemical analysis.

III. The emergency coordinator must assess possible hazards to human health or the environment resulting from the release, fire, or explosion. This includes consideration of both direct and indirect effects of the release, fire or explosion.

IV. If it is determined that the plant has had a release, fire or explosion which could threaten human health, or the environment, outside the plant, he must report the findings as follows:

A. If evacuation of local areas is advisable, he must immediately notify appropriate local authorities and be available to help officials decide whether local areas should be evacuated. See Reporting Procedures section for local numbers.

B. He must immediately notify either the government official designated as the on-scene coordinator for the plant's geographical area or the National Response Center (800/424-8802). The report must include:

1. Name and telephone number of reporter.

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2. Name and address of plant.

3. Time and type of incident (e.g. release, fire).

4. Name and quantity of material(s) involved, to the extent known.

5. The extent of injuries, if any.

6. The possible hazards to human health, or the environment, outside the plant.

V. During an emergency, the emergency coordinator must take all reasonable measures necessary to ensure that fires, explosions, and releases do not occur, recur or spread to other hazardous wastes at the facility. These measures must include, when necessary, stopping processes and operations, collecting and containing released wastes, and removing or isolating containers.

VI. If a plant stops operations in response to a fire, explosion, or release, the emergency coordinator must monitor for leaks, pressure buildup, gas generation, or ruptures in valves, pipes or other equipment.

VII. Immediately after an emergency, the emergency coordinator must provide for treating, storing, or disposing of recovered waste, contaminated soil or surface water or any other material resulting from a release, fire, or explosion.

VIII. The emergency coordinator must ensure that in affected area(s) of the plant:

A. No waste that may be incompatible with the released material is treated, stored, or disposed of until cleanup procedures are completed, and

B. All emergency equipment listed in the contingency plan is cleaned and fit for use before operations are resumed.

IX. The Regional Administrator and appropriate state and local authorities must be notified that the plant is in compliance with Section VIII before operations are resumed in the affected area(s) of the plant.

X. The emergency coordinator must note in the operating record the time, date, and details of any incident that requires implementing this contingency plan. Within 15 days after the incident, a written report must be sent to the EPA Regional Administrator and the NJ DEP. This report must include:

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A. Name, address and telephone number of the plant owner or operator.

B. Name, address and telephone number of the plant.

C. Date, time and type of incident.

D. Name and quantity of material(s) involved.

E. The extent of injuries, if any.

F. An assessment of actual or potential hazards to human health or the environment.

G. Estimated quantity and disposition of recovered material resulting from the incident.

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STORAGE AREA - DRUM LEAK CLEANUP PROCEDURES

One potential source of hazardous waste spills is from a leaking drum of waste stored on site. Each drum must be handled at least twice (when received and when shipped) and every handling operation provides a chance for an accident which could cause a leaky drum. It is also possible that a drum could develop a slow leak due to corrosion, even though it is inspected at least twice before it is picked up by Ashland's hauling vehicle at a customer's location.

Since there is a slight chance of waste spillage, all drivers and warehousemen must be familiar with how to contain and clean up a leaking drum. In case of a spill of organic liquids, the Newark IC&S plant has absorbent material, both granular and blanket type, stored in two warehouses near the waste drum storage area. Immediately upon discovery of a leaking drum, absorbent must be placed around and on the spill in quantities sufficient to completely contain the spill. The leaking drum should be isolated and positioned to minimize the leakage as soon as possible. If some material remains in the drum, it should either be transferred to a good empty drum or placed inside a recovery drum. All material used to absorb the spill must be clean up and placed in an appropriate DOT drum and labeled as a waste. The floor must be completely cleaned up to remove all traces of the spilled wastes. The operating log for the plant should have a notation made concerning the spill, its cleanup, and the amount of additional waste generated by the cleanup work. If the spill manages to escape the waste storage area and enters the ground next to the storage area, the proper state and federal agencies must be notified. After all cleanup work is completed, the absorbent stockpile should be inventoried and new material ordered to maintain an adequate stockpile of cleanup material.

If the leaking drum is a water based material such as spent acid or caustic the normally used absorbents (either 3M or granular) are not effective in picking up water solutions. Dirt, powdered clay, vermiculite, or sand can be used to contain the liquid, then a neutralizing agent can be added to minimize the corrosiveness of the contained material. The nearly neutral solution which is formed can then be picked up and put into drums, either by adding more sand, clay, etc., until the liquid turns into a sludge, or by scooping up the liquid with hand tools.

In any case of spill cleanup, all persons should wear personnel protective gear (gloves, goggles, aprons, and boots) in order to prevent chemical burns to the skin or eyes. If toxic fumes are emitted by the spilled material, respirators are available and should be worn.

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SPILL CONTROL PLAN

1. If possible, shut all valves immediately to cut off the source of the spill or release.

2. After this has been done or if this is not possible, immediately notify the area supervisor.

3. The area supervisor is to immediately notify the plant emergency coordinator or his on-the-scene alternate of the identity and amount of the spill or release.

4. The area supervisor is to inform the emergency coordinator of the personnel and equipment that he needs to contain a spill and clean it up.

5. All personnel on duty will report to the area supervisor and follow his instructions as to specific duties to be performed.

6. Move oil absorbent material, neutralizing material, and shovels from the warehouse area to the area of the spill.

7. Use shovels to move sand and dirt to encircle the spill and prevent it from entering a waterway, ditch, or sewer.

8. Use material to neutralize and/or absorb the spill.

9. Once a spill is contained, neutralized and/or absorbed, immediately remove it and clean the area.

   (A) Place all contaminated materials and recovered liquid in containers that are compatible with the material and that meet DOT requirements for shipping.

   (B) All hazardous waste or material contaminated with hazardous waste must be removed off-site for disposal at an approved disposal site.

10. Should a spill or release occur in other than normal working hours, the individual finding the spill will follow the emergency reporting procedure posted in the plant. If unable to reach the posted procedure in the plant, then telephone as follows:

    (A) Fire Department - 201/733-7400

    (B) Police Department - 201/733-6000

    (C) Ashland Oil, Ashland, Kentucky - 1-606/324-1133
    (D) District Manager and/or Plant Manager -

        Plant Manager - 201/994-0263
        District Manager - 212/229-0537

842600043

Section 6.30

Location: Newark, New Jersey

EMERGENCY EQUIPMENT

Physical Description	Location	Capabilities/ Intended Use
Absorbent Material, Bags Of Granular Type	Bldg. 3A Bldg. 12	Absorb Minor Spills Of Organic Chemicals Or Oil
Absorbent Material, 3M Blanket Type	Bldg. 3A Bldg. 12 Bldg. 19	Absorb Minor Spills Of Organic Chemicals Or Oil
Air Compressors (3)	Bldg. 12 (2 Units) Bldg. 19 (1 Unit)	Mixing Of Tank Contents Or Transfer Of Material Out Of Railcars Or Trucks
Chemical Neutralizers (Acid Or Caustic)	Bldg. 12 Bldg. 8 Bldg. 4	Neutralize Spills Of Acids Or Caustics
Fans, Portable (2)	Bldg. 12 Bldg. 19	Disperse Hazardous Fumes
(4) Portable Fire Extinguishers 2½ Gal Water	Various Locations	Put Out Fires
(4) Portable Fire Extinguishers 20 Or 30 Lb Dry Chemical	Various Locations	Put Out Fires
(9) Portable Fire Extinguishers Halon Or CO_2, 15 Or 20 Lb	Various Locations	Put Out Fires
(1) Wheeled Fire Extinguisher 75 Lb CO_2	Various Locations	Put Out Fires
(1) Wheeled Fire Extinguisher 150 Lb Dry Chemical	Various Locations	Put Out Fires
First Aid Kits (5)	Lab Offices (2) Bldg. 19	Treat Minor Injuries
Forklift Truck With Fire Extinguisher	Warehouse Loading	Move Drums & Equipment

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Physical Description	Location	Capabilities/ Intended Use
Tool Room	Bldg. 13	Repairs Of Equipment Or Hook-Up Of Transfer Equipment
Recovery Drums (4)	Bldg. 12	To Stop Leaking Drums
Portable Pumps (5) 3 Electric & 2 Gasoline Powered	Various Locations	To Transfer Liquids Or Pick Up Spills
Sprinkler Systems	Most Warehouses & Offices	Put Out Fires
Fire Hydrant Booster Pump	Bldg. 17	Boost City Water Pressure To All Plant Hydrants
Burgler Alarm	Main Office	Detect Illegal Entry To Plant
Public Address System	Throughout Plant	To Alert Operators And Drivers Of Plant Problems
Hydrants & Hose Houses	Bldg. 11, 12, 16 & East Loading Rack	Provide Water To Extinguish Major Fires
Self Contained Air Masks (2)	Outside Plant Manager's Office	Protect Operators From Chemical Fumes
Individual Respirators & Protective Clothing	Issued To Individual Employees	Protect Operators From Fumes & Chemical Sprays

842600045

ASHLAND CHEMICAL COMPANY

EVACUATION PLAN

I. In the event of a serious spill and/or fire or explosion, all personnel will immediately evacuate the premises.

A. The alarm will be sounded over the plant by means of the plant PA System.

1. Information as to the type of emergency will be provided verbally so that employees can move in a direction away from the hazard.

B. All exits are marked and all employees are familiar with the various routes of exit.

C. Upon complete evacuation of the plant, all employees will immediately assemble at the assembly area on P Avenue south of the plant.

1. The first person arriving at the assembly point will take attendance and report this information to the responding Fire and Police Departments. The authorities have received copies of this plan and are aware of this assembly point location.

2. All employees will stay at the assembly point until told otherwise by the authorities or the Ashland emergency coordinator.

II. Training

A. All employees will become familiar with the plant layout, fire exits and evacuation routes by conducting periodic fire drills and safety meetings.

1. Records of these drills and meetings are maintained at the plant.

B. In order for local authorities to become familiar with the plant layout, meetings and inspections are to be scheduled with local authorities as convenient.

1. Records of these meetings and inspections are to be kept at the plant.

III. General

A. The plant is so constructed that those areas that represent the greatest potential for a hazardous spill or fire are located away from the primary evacuation routes.

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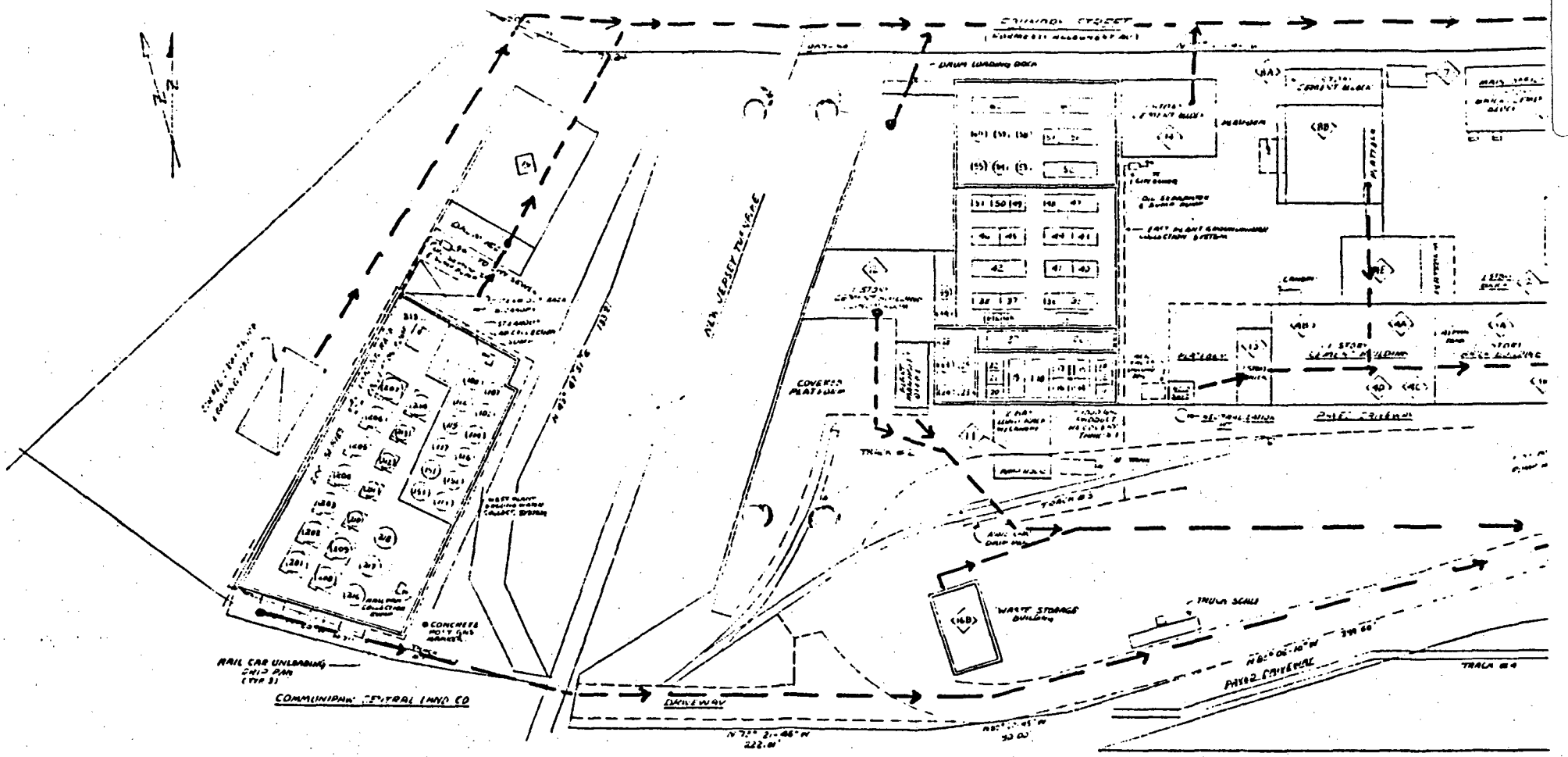


ASSEMBLY POINT - UNDER RR OVERPASS

REV	DATE	DESCRIPTION
		REVISION

ASHLAND CHEMICAL COMPAN

APPROVED

PLANT EVACU + SITE PLAN

REPORTING PROCEDURES FOR A SPILL OR RELEASE IN

National

Notification of a release shall be made as soon as practical once the necessary action is being taken to control the spill.

Duty Officer, National Response Center
U.S. Coast Guard
Washington, D.C.

800/424-8802

Notify immediately by calling the 24-hour telephone number.

New Jersey

All spills shall be reported immediately by phone to:

New Jersey Department Of Environmental Protection
Bureau Of Hazardous Wastes
32 East Hanover Street (CN-027)
Trenton, New Jersey 08625

609/292-5560 or 7172

Ashland

Report to Ashland Oil by the Emergency Reporting System

606/324-1133

842600048

SPILL PREVENTION CONTROL & COUNTERMEASURE PLAN

Onshore Industrial Chemicals & Solvents Facility

Address: Ashland Chemical Company
211 Foundry Street
Newark, New Jersey 07105

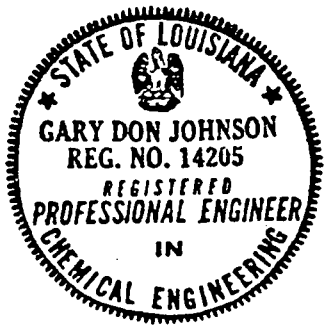
Owner: Ashland Oil, Inc.
1401 Winchester Avenue
Ashland, Kentucky 41101

Contact Person:

Management Certification: This SPCC Plan will be implemented as herein described:

Signed: James S Mobberly
James S. Mobberly, Operations Manager

P.E. Certification: I hereby certify that I have examined the facility, and being familiar with the provisions of 40 CFR Part 112 attest that this SPCC Plan has been prepared in accordance with good engineering practices.



Signed: Gary Don Johnson

Print Name: Gary Don Johnson

Registration No.: 14205 State: Louisiana

Date: October 24, 1983

842600049

SPILL PREVENTION CONTROL & COUNTERMEASURE PLAN

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14.0	Personnel, Training, & Spill Prevention Procedures
15.0	Tank List

842600050

1.0 APPLICABILITY

This SPCC Plan describes this facility's preparedness to prevent the discharge of oil and release of product or hazardous waste to the environment. In the event of a release the SPCC Plan describes the facility's response to control and remove the released material.

The intent of the SPCC Plan is to satisfy the requirements of the Federal Water Pollution Control Act [Section 311 (j) (1) (c)] the U.S. EPA Resource Conservation & Recovery Act (RCRA) and the U.S. EPA Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA).

This SPCC Plan was prepared to satisfy EPA regulations on Oil Pollution Prevention (40 CFR Part 112) and on Contingency Plan & Emergency Procedures for Hazardous Waste Facilities [40 CFR Parts 264.52 (a) & 265.52 (a)].

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2.0 REQUIREMENT FOR PREPARATION/IMPLEMENTATION (Section 112.3)

Owners or operators of onshore and offshore facilities in operation on or before March 26, 1976 that have discharged or, due to their location could reasonably be expected to discharge oil in harmful quantities as defined in 40 CFR Part 110, into or upon navigable waters of the United States or adjoining shorelines, shall prepare a Spill Prevention Control and Countermeasure Plan (SPCC Plan) in accordance with 40 CFR Part 112.7.

No SPCC Plan shall be effective to satisfy the requirements of this part unless it has been reviewed by a Registered Professional Engineer and certified by such Professional Engineer. By means of this certification the engineer having examined the facility and being familiar with the provisions of this part, shall attest that the SPCC plan has been prepared in accordance with good engineering practices.

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3.0 AVAILABILITY OF THE PLAN (Sec. 112.4)

The SPCC Plan must be maintained on file at the plant. The plan must always be available for on-site review by employees of the US EPA/NJ DEP during normal working hours.

This plan along with any amendments will be submitted to the Regional Administrator of the U.S. EPA and to the appropriate State agencies in charge of pollution control upon their request following a reportable release of a hazardous substance from this facility.

This plan along with any amendments must be submitted to the above mentioned agencies whether requested or not within 60 days after either of the following oil spill events:

(1) A discharge of more than 1000 U.S. gallons of oil into navigable waters in a single spill event; or

(2) A discharge of oil in harmful quantities, as defined in 40 CFR 110, into navigable waters in two reportable spill events within any 12 month period. (40 CFR 110 defines a harmful quantity of oil as that which violates applicable water quality standards or causes a film or sheen upon the surface of the water or adjoining shoreline.)

Within 60 days of the occurrence of either of these two conditions, we must submit to the EPA Regional Administrator the following:

(1) Name of the facility;

(2) Names of the facility owner/operator;

(3) Location of the facility;

(4) Date of initial facility operation;

(5) Maximum storage or handling capacity of the facility and current normal daily throughput;

(6) Description of the facility including maps, flow diagrams, and topographical maps;

(7) A complete copy of the SPCC Plan with any amendments;

(8) The cause of such spill including a failure analysis of the system in which the spill occurred;

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(9) The corrective actions and/or countermeasures taken, including an adequate description of equipment repairs and/or replacements;

(10) Additional preventive measures taken or contemplated to minimize the possibility of recurrence;

(11) Such other information as the Regional Administrator may reasonably require pertinent to the plan or spill event.

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4.0 AMENDMENTS TO THE PLAN (Sec. 112.5)

This plan will be amended for any of the following reasons:

(1) When required by the EPA after review of the SPCC Plan which has been submitted because of either of the oil spill events described in the previous section.

Note: The EPA must submit a written notice of proposed amendments. Within 30 days from receipt of notice, we can submit written information, views and arguments on the proposed amendments. After considering all relevant material presented, the Regional Administrator will notify us of any amendments required or shall rescind the notice. We can appeal the decision of the Regional Administrator. The appeal must be made in writing within 30 days of receipt of notice.

(2) Whenever there is a change in facility design, construction, operations, or maintenance which materially affects the potential for a spill.

(3) The owner or operator is required by law to review each SPCC plan at least once every three years, and an amendment is required if such review indicates more effective control and prevention technology will significantly reduce the likelihood of a spill event (and if such technology has been field proven).

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5.0 CIVIL PENALTIES (Sec. 112.6)

Owners or operators of facilities subject to Section 112.3 (a) who violate the requirements of this Part 112 by failing or refusing to comply with any of the provisions of Sec's. 112.3, 112.4 and 112.5 shall be liable for a civil penalty of not more than $5,000 for each day such violation continues.

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6.0 FACILITY DESCRIPTION

Refer to the attached plot plan (7491-ZD-1) for the plant layout.

This is a chemicals and solvents distribution plant. Chemicals and solvents are shipped to the plant by railroad tank cars and truck tank wagon. These chemicals are stored in bulk storage tanks in two different areas of the plant. These are the East solvent tank farm and the West solvent tank farm. The chemicals are identified in the attached tank list.

These chemicals are repackaged for sales in drum lot quantities to customers throughout the area. The repackaging is done in the solvent and acid drumming areas. The drummed products are stored in the warehouse storage areas prior to sales.

No chemical production is done on site. A few special blends are prepared from raw materials stored on site.

All waste solvents associated with plant operations are recovered. They are stored in drums or either of two solvent recovery tanks. The waste solvents are either sold for beneficial use or shipped off-site to a solvent reclaimer or a waste disposal firm.

Waste acids or bases from inorganic drumming operations are collected in the neutralization pit. The contents of the neutralization pit are pumped to the sanitary sewer after the pH has been adjusted and checked.

Customer wastes are also stored on site. Customer wastes are stored until a truckload quantity can be accumulated for shipment to a reclaimer or a waste disposal firm.

All waste drums are stored indoors in a dock high warehouse (Bldg. 16). Drummed wastes are stored and handled in the same manner as drummed products.

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7.0 SPILL HISTORY [Sec. 112.7 (a)]

The facility has experienced no reportable spill events within 12 months prior to the effective date of this part (circ. 1974) and therefore no written description or corrective action is necessary for preventing recurrence.

842600058

8.0 SITE DRAINAGE

The entire plant site is located in natural low area with almost no slope within the plant. On the south side of the property a 20 ft high dirt embankment used as a railroad roadbed acts as a drainage barrier and is penetrated only by P Avenue. The New Jersey turnpike runs roughly North/South through the center of the property and prevents any flow through except at Foundry Street at the north end of the property and a railroad underpass at the south end of the property. In the event of a very large spill, some material might reach Foundry Street and flow to the corner of P Avenue where the lowest elevations near the plant occur. City Storm Sewers exist on the NW side of the turnpike embankment and in P Avenue on the S.E. side of the plant.

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9.0 POTENTIAL SPILLS & CONTROL (Sec. 112.7)

The plant areas in which spills can occur are as follows:

(1) Solvent tank farm(s) (two)
(2) Tank car unloading area(s) (two)
(3) Tank truck loading/unloading areas (two)
(4) Tank truck unloading area (acids/caustic)
(5) Solvent drumming areas (two)
(6) Acid/caustic drumming areas (two)
(7) Product drum storage areas (five)
(8) Waste drum storage area
(9) Waste solvent recovery tanks (two)

The potential amounts of material that may be spilled in these areas and the means of containing the spill are as follows:

(1) Solvent Tank Farm

Spills in the solvent tank farms could be caused from overfilling a tank or leaking of tank contents. Spills in the tank farm area are confined to the tank farm by the tank farm dike.

The largest tanks in the solvent tank farm have a total volume of 30,000 gallons. If the entire contents of one of these tanks were spilled, the spill would be contained by the tank farm dike.

The tank farm dike has a capacity well in excess of the contents of the largest single tank plus freeboard for precipitation. The dike is impervious and will contain a spill until it can be removed.

Any spills in the tank farm will be cleaned up immediately. The recovered material will be shipped off-site either to a solvent reclaimer or to a waste disposal firm.

(2)(3)(4) Tank Car & Tank Truck Loading/Unloading Rack

A spill could occur during loading and unloading operations from overfilling or a break in a hose, pipe, or fitting. A total potential spill of 6,000-20,000 gallons could occur if the entire contents of a tank wagon or tank car compartment were spilled.

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We would expect the maximum quantity of a spill to be one drum (52 gallons) for any one incident. This spill would be confined to the immediate area.

The warehouse floor in each area is concrete and impervious. Absorbents will be used to pick up solvent spills. Chemical neutralizers and absorbents will be used for acid and caustic spills.

(8) Waste Drum Storage Areas

Drummed hazardous waste is stored inside Bldg. #16B. The floor area of this warehouse is 1250 square feet. The warehouse is a concrete block building with the walls sealed to the floor to prevent seepage. Thefloor of this warehouse is reinforced concrete and impervious. Only two doors access this building, a mandoor plus one truck loading dock. Both of these doors have a 1" ramped curb to prevent spillage from escaping the building which provides a capacity of 780 gallons of spill protection. This provides spill containment for about 14 drums or 14% of the 100 drum maximum storage volume. Drums will be stored on pallets with a maximum stacking height of two drums. The pallet will prevent any possible spillage from contacting other containers. This building is also sprinklered to protect against possible fires.

(9) Waste Solvent Recovery Tank

The 20,000 gallon solvent recovery tank, for the West plant equipment, is located inside an impervious diked area. The dike would contain the entire contents of the tank. This tank is level checked daily to prevent possible overfilling. The dike is designed to contain the tank contents plus the rainfall associated with a 25 year, 24 hour event.

Any spillage associated with emptying this tank drains to the sump which supplies this tank.

The 10,000 gallon solvent recovery tank for the East side of the plant is a buried tank located adjacent to the East plant truck and rail loading racks. All material collected in the railcar drip pan or the covered truck rack will drain by gravity to this recovery tank. This tank is level checked daily to prevent overfilling.

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Spills from the West plant solvent unloading racks (railcar and truck) are collected in one of two 500 gallon sumps. The level in each sump is controlled by a float which activates a pump. The pump discharges to a 20,000 gallon waste solvent recovery tank. The recovered material is shipped off-site either in a solvent reclaimer or to a waste disposal firm.

Spills from the East plant solvent unloading racks (railcar and tank truck) drain by gravity to a 10,000 gallon below grade solvent recovery tank. Collected material normally is sold as a general purpose solvent, but sometimes must be sent to a reclaimer or a waste disposal firm.

Spills at the acid truck unloading pad drain to the 1,000 gallon, below grade, neutralization pit. When neutralization is complete the contents of the neutralization pit are pumped to the sanitary sewer.

(5) & (6) Drumming Areas

A spill could occur during drumming as a result of overfilling or due to equipment breakdown.

Operators are in constant attendance during drumming. They are available to immediately stop the operation if a spill occurs. The maximum spill which we would anticipate would be the contents of one drum (52 gallons).

Spills at the solvent drumming areas drain to one of the two waste solvent recovery tanks. Spills at the acid drumming station go to the neutralization pit.

(7) Drum Storage Areas

Both the acid and solvent drum storage areas are indoors. A spill can occur in either area from a leaking drum. Since both storage areas are indoors run-on and precipitation are prevented. The drums are stored on pallets to prevent contact with leaked liquids.

10.0 DESIGN & OPERATING INFORMATION

This facility conforms to the following design and operating standards.

(1) Facility Drainage

Drainage from each solvent tank farm dike is controlled by a drain valve. The drain valve is a manually operated open and closed type valve. The drain valve is kept in the closed position except when draining the dike.

The dike is drained under responsible supervision. The accumulated material is examined visually before draining to be sure that no oil will be discharged. Analytical tests are made as necessary to ensure compliance with water quality standards. The drain valve is closed following drainage under responsible supervision.

Drainage from the acid loading area goes to the neutralization pit. The neutralization pit is emptied by a manually activated pump. The pH of the neutralization pit contents is checked before starting the pump.

Metal spill pans and concrete loading pads are used to prevent contamination of the tank car and tank wagon loading/unloading rack areas. Drainage from these areas is limited to surface water runoff from precipitation.

(2) Bulk Storage Tanks

Bulk storage tanks which are used for the storage of solvents, acids and bases must meet the engineering specifications of the Ashland Chemical Company. The engineering specifications are maintained by the Central Engineering Department which is located at Chemical Company headquarters in Columbus, Ohio. Engineering specifications are maintained for the bulk storage of flammable liquids and specific acids and bases.

No tank is used for storage of a chemical that does not meet the engineering specifications for that service.

Bulk storage tank installations are provided with dikes of sufficient capacity to contain the contents of the largest single tank plus freeboard for precipitation. The dikes are sufficiently impervious to contain spills until the spill can be removed.

Drainage from the solvent tank farm and the acid tank farm is controlled in the manner described in the previous section on facility drainage.

One buried metal storage tank is used at this facility as a solvent recovery tank.

Aboveground tanks are subjected to integrity testing every three years. This service is provided by the Plant Services group of the Central Engineering Department of Ashland Chemical Company.

The tank farm areas are inspected routinely. The tanks are inspected to detect corrosion or leaking of fittings and seams. Visible leaks which result in an accumulation in the diked area are promptly corrected.

The tank farm dikes and the areas around the dikes are also inspected routinely for signs of leakage such as erosion, wet spots or dead vegetation.

Since none of the storage tanks are equipped with internal heating coils, this is not a potential source of leaks.

(3) Facility Transfer Operations

All piping must meet Ashland Chemical Company Engineering Specifications. The Engineering Specifications specify the material of construction and pressure and temperature ratings which are required for transfer piping.

Underground piping is buried in a 6-inch envelope of sand. Buried metallic piping is protected from soil corrosion by a protective wrapping and coating. All materials and application are in accordance with the National Association Of Corrosion Engineers, Std. RP-01-69, Rev. '72.

The amount of cathodic protection needed is determined before installation either by calculation or previous experience or after the pipe is buried from measurements of pipe to soil corrosion potentials using a test rectifier. Ashland uses cathodic protection consultants for design of cathodic protection systems.

Pipeline terminal connections are properly identified and capped.

Pipe supports are designed in accordance with Ashland's Engineering Specifications.

Visual inspections are conducted regularly of aboveground valves and piping. Repairs are made as necessary.

Vehicular traffic entering the plant is warned verbally and by appropriate markings to avoid damage to aboveground piping by the vehicle. In general, aboveground piping is 20 ft above grade in all major access alleys.

(4) Facility Tank Car & Tank Truck Loading/Unloading Rack

Tank car and tank truck loading/unloading procedures meet the requirements and regulations of the Department of Transportation.

Spill pans are used to prevent contamination of the ground in the loading areas. Operators are in constant attendance during loading/unloading operations. They are available to take immediate action in the unlikely event of a hose or pipe break.

Ashland drivers, material handlers, and operators are trained to check and close all drain valves on a vehicle before and after loading and unloading. The valves are checked for leaking and if necessary tightened, adjusted or replaced.

Ashland drivers, material handlers, and operators are trained to check that all transfer lines are disconnected prior to vehicular departure.

842600066

11.0 SPILL CONTINGENCY PLAN

This facility has a comprehensive contingency plan of which the SPCC plan is only a part. The plant's contingency plan meets EPA regulations for Oil Spill Removal (40 CFR 109) and Contingency Plans for Hazardous Waste Facilities (Subpart D of 40 CFR Parts 264 & 265).

This part of the SPCC Plan describes the facility's response to a spill or release of product or hazardous waste. Refer to the plant's contingency plan for the responsibilities of the plant emergency coordinator and his alternates. The plant's contingency plan which includes the SPCC Plan has been sent to the state and local authorities who may be notified in the event of a spill or release.

In the event of a release or spill, this facility is prepared to commit all on-duty personnel to contain and clean up any spill at this or from this facility. The following "Spill Control Plan" procedure will be implemented.

842600067

SPILL CONTROL PLAN

1. If possible, shut all valves immediately to cut off the source of the spill or release.

2. After this has been done or if this is not possible, immediately notify the area supervisor.

3. The area supervisor is to immediately notify the plant emergency coordinator or his on-the-scene alternate of the identity and amount of the spill or release.

4. The area supervisor is to inform the emergency coordinator of the personnel and equipment that he needs to contain a spill and clean it up.

5. All personnel on duty will report to the area supervisor and follow his instructions as to specific duties to be performed.

6. Move oil absorbent material, neutralizing material, and shovels from the warehouse area to the area of the spill.

7. Use shovels to move sand and dirt to encircle the spill and prevent it from entering a waterway, ditch, or sewer.

8. Use material to neutralize and/or absorb the spill.

9. Once a spill is contained, neutralized and/or absorbed, immediately remove it and clean the area.

   (A) Place all contaminated materials and recovered liquid in containers that are compatible with the material and that meet DOT requirements for shipping.

   (B) All hazardous waste or material contaminated with hazardous waste must be removed off-site for disposal at an approved disposal site.

10. Should a spill or release occur in other than normal working hours, the individual finding the spill will follow the emergency reporting procedure posted in the plant. If unable to reach the posted procedure in the plant, then telephone as follows:

    (A) Fire Department - 201/733-7400

    (B) Police Department - 201/733-6000

    (C) Ashland Oil, Ashland, Kentucky - 1-606/324-1133
    (D) District Manager and/or Plant Manager -

    Plant Manager - 201/994-0263
    District Manager - 212/229-0537

842600068

11. Follow the attached reporting procedure for notifying the proper State and Federal authorities of a spill or release.

842600069

REPORTING PROCEDURES FOR A SPILL OR RELEASE IN

National

Notification of a release shall be made as soon as practical once the necessary action is being taken to control the spill.

Duty Officer, National Response Center
U.S. Coast Guard
Washington, D.C.

800/424-8802

Notify immediately by calling the 24-hour telephone number.

New Jersey

All spills shall be reported immediately by phone to:

New Jersey Department Of Environmental Protection
Bureau Of Hazardous Wastes
32 East Hanover Street (CN-027)
Trenton, New Jersey 08625

609/292-~~5360~~ or 7172

Ashland

Report to Ashland Oil by the Emergency Reporting System

606/324-1133

842600070

12.0 INSPECTIONS & RECORDS

EPA regulations for hazardous waste facilities (40 CFR Parts 264.15 & 265.15) and oil pollution prevention [40 CFR Part 112.7(e)(8)] require that a facility is periodically inspected. This facility has a written inspection procedure. This inspection procedure is described in the contingency plan.

Inspections are recorded in a log. The log is kept for three years from the date of inspection. Deteriorations or malfunctions revealed by the inspection are corrected before they lead to a spill or release of hazardous material.

The inspection logs include the following minimum information:

(1) The date of inspection
(2) The time of inspection
(3) The name of the inspector
(4) A notation of the observations made
(5) The date and nature of any repairs or other remedial actions.

842600071

13.0 SECURITY

EPA regulations for hazardous waste facilities (40 CFR Parts 264.14 & 265.14) and oil pollution prevention [40 CFR Part 112.7(e)(9)] require plants handling hazardous wastes to be fully fenced. Entrance gates should be locked and/or guarded when the plant is not in production or is unattended.

This entire plant is enclosed by a high security fence with locked gates. Entrance to the plant is only through the gates and during non-attended periods the gates are locked.

The waste drum storage area is indoors in a warehouse with lockable doors. The aboveground waste storage tank dike drain valves are kept in the closed position. The second storage tank is buried and therefore needs no dike.

842600072

14.0 PERSONNEL, TRAINING, AND SPILL PREVENTION PROCEDURES

Ashland's Industrial Chemicals & Solvents (IC&S) Division has an active safety program which includes training required by the Resource Conservation & Recovery Act (40 CFR Parts 264.16 & 265.16) and by Oil Pollution Prevention Regulations [40 CFR Part 112.7 (e)(10)]. A written description of this facility's training program is contained in the plant contingency plan.

Training activities and personnel training records are maintained by the plant manager. The plant manager is the designated individual who is responsible for the Spill Prevention Control and Countermeasure (SPCC) Plan.

842600073

9/23/83
J. D. Minott

NEWARK, NEW JERSEY IC&S TANKAGE LIST

Tank #	Capacity (Gallons)	Product Stored	Chemical Name (If Different)	Hazardous By NJAC Rules
11	5,000	Hi Sol 15	Petroleum Distillate	X
12	5,000	Hi Sol 15	Petroleum Distillate	X
13	5,000	DTL-16	Blend Of Petroleum Distillate	X
14	7,800	Propyl Acetate		
15	7,900	Isopropyl Acetate		
16	7,800	Lacolene	Petroleum Distillate	X
17	8,000	Lacolene	Petroleum Distillate	X
18	15,700	Cellosolve Solvent	Ethylene Glycol Ethyl Ether	X
19	15,800	Cellosolve Acetate	Ethylene Glycol Ethyl Ether Acetate	
20	4,300	Propanol		X
21	6,500	Perchloroethylene		Special Toxic VOC X
22	4,300	Primary Amyl Acetate		X
23	3,000	Blend Tank		X
24	3,000	Blend Tank		X
25	3,000	Blend Tank		X
26	22,900	Methyl Ethyl Ketone		
27	22,800	Methyl Isobutyl Ketone		
28	10,000	1309 Oil	Petroleum Distillate	X
29	14,900	Kwik Dri Solvent	Petroleum Distillate	X
30	2,400	Butyl Carbitol	Diethylene Glycol Butyl Ether	
31	2,400	Di Isobutyl Ketone		
32	2,400	P.M. Acetate	Propylene Glycol Methyl Ether Acetate	
33	2,500	Isobutanol		
34	15,000	Ethylene Glycol		
35	15,000	99% Isopropanol		X
36	5,000	Isobutyl Acetate		X
37	10,000	Methylene Chloride		X

842600074

Tank #	Capacity (Gallons)	Product Stored	Chemical Name (If Different)	Hazardous By NJAC Rules
38	10,000	Hi Sol 10	Petroleum Distillate	X
39	10,000	Fuel Oil	Petroleum Distillate	X
40	10,000	Cyclohexanone		
41	10,000	Ethyl Acetate, 85%		
42	20,000	Xylene		X
43	10,000	Hexane		X
44	10,000	Mineral Seal Oil	Petroleum Distillate	X
45	10,000	Rubber Solvent	Petroleum Distillate	X
46	10,000	Butyl Acetate		X
47	15,000	Synasol Solvent	Ethanol	
48	5,000	Hexanol	Petroleum Distillate	X
49	7,700	Methylene Chloride		X
50	7,300	Empty		
51	5,000	Di Acetone Alcohol		
52	20,000	Butyl Cellosolve	Ethylene Glycol Butyl Ether	X
53	20,000	Anhydrous Synasol	Ethanol	
54	20,000	99% Isopropanol		X
55	19,900	Mineral Spirits	Petroleum Distillate	X
56	15,000	VM&P Naptha	Petroleum Distillate	X
57	5,000	VM&P Naptha	Petroleum Distillate	X
58	20,000	Acetone		
59	20,000	Heavy Aromatic Naptha	Petroleum Distillate	X
60	19,900	Methanol		
61	20,000	Toluene		X
62	20,300	Butanol		
63	5,000	Blend Tank		X
102	20,000	Di Octyl Phthalate		
107	19,800	Escoflex 150	Polymeric Plasticizer	
108	15,000	Hi Sol 400	Petroleum Distillate	X
112	19,900	Mineral Seal Oil	Petroleum Distillate	X
113	19,900	Mineral Spirits, Rule 66	Petroleum Distillate	X
114	19,900	Isopropyl Ether		
115	19,900	99% Ethyl Acetate		
116	19,900	Di Methyl Formamide		
117	15,000	Di Isononyl Phthalate		
142/143	15,000	Diesel Fuel	Petroleum Distillate	X
151	30,000	Kwik Dri		
152	30,000	Lacolene		
153	20,000	Mineral Spirits, Rule 66	Petroleum Distillate	X

842600075

Tank #	Capacity (Gallons)	Product Stored	Chemical Name (If Different)	Hazardous By NJAC Rules
201	30,000	Tetrahydrofuran		
202	30,000	Di Methyl Formamide		
203	30,000	Empty		
204	30,000	Cyclohexane		
205	30,000	Magic Coat	Petroleum Distillate	X
206	30,000	140 Solvent	Petroleum Distillate	X
207	30,000	Xylene		X
208	30,000	Mineral Spirits, Odorless	Petroleum Distillate	X
209	30,000	Mineral Spirits, Rule 66	Petroleum Distillate	X
210	20,000	Recovered Solvents	Petroleum Distillate	X
211	20,000	Empty		
212	20,000	Admex 522	Plasticizer	
213	20,000	Empty		
214	30,000	Dimethyl Formamide		
215	10,000	Fuel Oil #2	Petroleum Distillate	X
216	30,000	Empty		
217	30,000	VM&P Naptha	Petroleum Distillate	X
218	30,000	Empty		
Alpha	2,600	Blend Tank		X
B	10,000	Recovered Solvents (Buried Tank)		X
S-1	1,000	Recovered Solvents (Aboveground Tank)	Petroleum Distillate	X

842600076

Ref: Sec. 264.16 and 122.25(a)(12)

PERSONNEL TRAINING

Ashland's Industrial Chemicals and Solvents (IC&S) Division has an active safety program which includes training required by the Resource Conservation and Recovery Act (RCRA) and Oil Pollution Prevention Regulations (SPCC Plan). Each employee attends monthly safety meetings. In addition to the safety meetings, each employee is provided with a safety manual. The safety manual contains company safety regulations and provides basic instructions on how to handle chemical products at the plant. Periodic training is provided to reinforce safety manual procedures and tests are given to insure that the procedures are understood.

Employees involved in handling hazardous chemical products and wastes are required to take the following additional training:

1. Truck drivers and forklift operators must successfully complete training before being allowed to operate the unit.

2. Before hazardous chemical products and wastes are handled, truck drivers must be knowledgeable with Federal Motor Carrier Safety Regulations 49 CFR Parts 390 through 397 to ensure compliance.

3. Plant handlers of hazardous chemical products and wastes receive on-the-job training from the plant manager and experienced plant personnel. Part of the on-the-job training includes instructions on properly preparing manifests, placarding drums, etc., for hazardous chemical products and wastes.

4. An audio-visual training program on RCRA is given to truck drivers and plant personnel (See Attachment I).

5. Other audio-visual programs on safety are shown on Table 1.

6. Procedures for use, inspection (see "Inspection Schedule and Log" in Contingency Plan), repair, and replacement of facility emergency equipment, monitoring equipment and alarm system.

7. Employee requirements due to a fire, explosion or groundwater contamination incidents. These requirements include proper usage of fire extinguishers, employee protection, proper reporting procedures, etc.

842600077

8. Shutdown plan during a fire, explosion, power blackout, pump failure, operational spillage, etc.

9. Cleanup procedures of impervious diked tank farm areas of the facility.

The specific requirements addressed in Training Items 1-9 must be successfully completed before a new employee is allowed to work in an unsupervised area of the plant. The requirements associated with Training Items 1-9 are repeated at least annually, and certain areas are reinforced to insure continuous understanding at monthly safety meetings. The specifics of training for each job title are contained in Attachment II. Records of all personnel training are maintained at the plant (see Attachment III).

Hazardous wastes as defined by RCRA are handled in the same manner as hazardous chemical products. As a result, the combination of safety manuals, safety meetings, tests and on-the-job training sessions ensure that Ashland IC&S personnel meet the standards under RCRA.

Files of all safety and RCRA related training are maintained by the plant manager. The key personnel responsible for employee safety training with special emphasis upon RCRA are listed below along with major responsibilities:

Name And Job Title	Major Responsibilities
Michael McCann District Manager	Administratively directs and coordinates chemical product sales through sales personnel. Directs the safe and efficient operation of facility. Insures that all paperwork concerning chemical product sales is completed in an accurate and timely manner. Is also responsible for developing and preparing annual forecasts for chemical product sales. Duties involving hazardous waste activities include, through the material handlers and truck drivers, insure all hazardous waste shipments are properly manifested, documentation filed, etc. Insures that all (Federal RCRA and State) files concerning special waste activities are up-to-date. Insures, through the material handler, that hazardous wastes are stored in accordance with Federal RCRA and State requirments. Finally, directs all training required for plant personnel involved with hazardous waste activities.

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Name And Job Title	Major Responsibilities
William Elsasser Plant Manager	Responsible for developing and insuring chemical products are delivered to meet customer demands. Responsible for the efficient and safe operation, and maintenance of all vehicles involved in chemical product and hazardous waste shipments. Responsible for training programs for all employees to insure compliance with DOT, RCRA, state, etc. regulations.
Robert Oliver F. Gerard Duffy Plant Supervisors	Supervises all chemical personnel to insure proper procedures are followed involving all sales of chemical products. Responsible for chemical personnel training involving Purchasing/Inventory Control, RCRA paperwork filing, etc., at the facility.
	Other Key Personnel
District Sales Manager Ralph Davies Sales Representatives Pentalope Bogee Brian Huston Kelvin Larkin Joe Marston Thomas Max James O'Neil Adam Walechiewicz	Report directly to the district manager. Maintains necessary customer contacts to insure chemical product sales and handling of off-spec chemical products. Coordinates, through the plant manager, chemical product shipments to customers. Collects samples of chemical products which are suspect off-spec materials. Assists, through the district manager, customers that have received off-spec chemical products.
Office Manager Martin Kowalski	Responsible, through the district manager, for properly filing all paperwork involving chemical product sales, shipment, etc., This would include filing of paperwork (e.g., manifests) for RCRA. Assists, through the office manager, plant personnel in properly preparing all paperwork involving chemical product sales, shipments, etc.
Office Personnel Helan Moran Elaine Barnowski Janet Bilka Gerard Cleary Joe DuiGiacimo Janice Nechiporak Monica St. Caines Susan Turpan	

842600079

Name And Job Title	Major Responsibilities
Plant Maintenance & Material Handlers Parker Reynolds John Klena Vivian Alt William Brown James DeSantis Gerald Fischer Henry Hanowski Ulysses Smith Raymond Zimmerman	Responsible, through the plant manager, for the proper handling and storing of all chemical products. These procedures are also applicable for the proper handling and storing of hazardous waste. Under the supervision of the plant manager, all chemical blends are prepared by the material handlers. Part of these procedures include chemical analysis to insure customer specifications are met. Any product spills, accidents, etc., are reported directly to the district manager.
Truck Drivers Hugh Byrnes Joseph Chenchlorik Joseph Eynar Fred Elsasser Bob Foley John Genert Harvey Hansen Rupert Hill Thomas Morton	Responsible for the safe transport and delivery of chemical products and off-spec materials to and from customers. Knowledge, through district manager, of all federal, state and company regulations required to insure compliance with applicable transportation of chemical products. Responsible for insuring all required shipping documents are maintained with the truck. In addition, all drivers know what reporting procedures are necessary in the event of a spill during transport of a chemical product and/or off-spec material.

842600080

TABLE 1

AUDIO VISUAL PROGRAMS ON SAFETY

PROGRAM	TITLE	MINUTES	
03	SAFETY TIPS FOR NEW EMPLOYEES	11	
04	HOW TO PREVENT FALLS	10	
08	DOT REGULATIONS - CONTAINERS FOR HAZARDOUS MATERIALS (REV. 4-7-75)	48	
09	SAFE OPERATION AND MAINTENANCE OF LIFT TRUCKS	24	MANDATORY
15	SAFE STORAGE AND HANDLING OF SOLVENTS	40	MANDATORY
16	SAFE HANDLING AND STORAGE OF CORROSIVES, OXIDIZING MATERIALS, AND POISONS	50	MANDATORY
17	MANUAL LIFTING AND HANDLING	10	
18	SAFETY AND THE SUPERVISOR	15	
29	DOT REGULATIONS GOVERNING SURFACE TRANSPORTATION OF HAZARDOUS MATERIALS	73	MANDATORY
30	THE TOXIC SUBSTANCES CONTROL ACT	17	MANDATORY
34	SAFE HANDLING OF CHEMICALS	70	MANDATORY

Personnel Training

Attachments I – III

842600081

Sample

Generator's Waste Material Profile Sheet

Certification of Representative

842600082

INSPECTION PROCEDURE

The Resource Conservation and Recovery Act and Oil Pollution Prevention Regulations (SPCC) Plan requires that a facility is routinely inspected for conditions that may be causing or may pose a threat to human health.

The facility must have a written inspection schedule. Inspections must be recorded in a log. The log must be kept for three years from the date of inspection. Deteriorations or malfunctions revealed by the inspection must be remedied before they lead to an environmental or human health hazard.

The inspection records must include the following minimum information:

(1) The date of inspection

(2) The name of the inspector

(3) A notation of the observations made

(4) The date and nature of any repairs or other remedial actions

842600083

RCRA OPERATING RECORD

The RCRA regulations require that an "operating record" be kept of the activities of any hazardous waste facility. These records must be available for inspection by any state or US EPA officials which visit the site. The records must be kept on file for three years or until closure of the waste facility is complete. Company policy dictates permanent records retention of this data. For this facility the only waste operations are storage of drummed wastes in a specially designed portion of warehouse #16 and bulk storage in two separate waste storage tanks. The exact location is shown on the plant plot plan. All storage of drums is in one location.

The operating record for this facility is composed of four documents:

(A) The waste disposal log sheet

(B) Reports of incidents which require implementing the contingency plan, i.e., spills, accidents, etc.

(C) Inspection reports of emergency equipment, security devices, and the waste drum storage area

(D) The current closure cost estimate

These documents are kept in the plant manager's office and are maintained by him. The waste disposal log sheet contains the data to cross reference all shipments to customer billing, disposal vendor analysis, and manifest files. On this log sheet the following data is listed:

(1) Generator name and location

(2) Generator EPA I.D. number

(3) Sample waste analysis profile number (identifies the analysis of the shipment)

(4) US EPA or NJ DEP hazardous waste number (i.e., F001, D002, etc.)

(5) UN hazardous waste number (i.e., UN 1710, NA-9188, etc.)

(6) Total weight and number of drums in shipment

(7) Date and manifest number for pick up of shipment at generator

(8) Date and manifest number for shipment to disposal vendor

(9) Ultimate disposal site and its EPA I.D. #

(10) Ashland sales order number and purchase order number

842600084

Incident reports are kept in a separate folder and are made on the attached form. These reports are sent to both the US EPA Region II and the regional NY DEC offices if an incident occurs which requires activation of the emergency or contingency plan.

Inspection reports (see forms included as part of Section 10) are done at least monthly plus after any use of the emergency equipment due to an emergency incident. Back reports are kept in a separate file in the plant manager's office.

A copy of the current contingency plan for the site (which contains the facility closure estimate) is also kept on file in the plant manager's office. Since this facility is not a disposal site, no post closure estimate is required.

The data referenced in the waste disposal log provides a method to look up any desired shipment in the customer files, which are kept in the same area. Manifests and waste analysis profiles are filed by customer, so that any shipment can be traced as needed to check its status.

Details on the waste analysis profile sheets and the analysis methods are listed in Section 9 (Waste Analysis Plan).

842600085

NEWARK, NEW JERSEY IC&S

REPORTING FORM FOR EMERGENCY EVENTS

Name And Title Of Reporting Person

Address And Phone Number Of Facility Involved

Date, Time, And Type Of Incident (e.g., Fire, Explosion, Etc.)

Name And Quantity Of Material(s) Involved

Extent Of Injuries (If Any)

Assessment Of Actual Or Potential Hazards To Human Health Or The Environment (If Applicable - Use Reverse Side For Details If Needed)

Estimated Quantity And Disposition Of Material Recovered From The Incident

Send To:

U.S. EPA, Region II
Chief, Solid Waste Branch
26 Federal Plaza
New York, New York 10278

New Jersey Department
Of Environmental Protection
32 East Hanover Street
Trenton, NJ 08625 (CN-027)

Attn: Chief, Bureau Of Hazardous Wastes

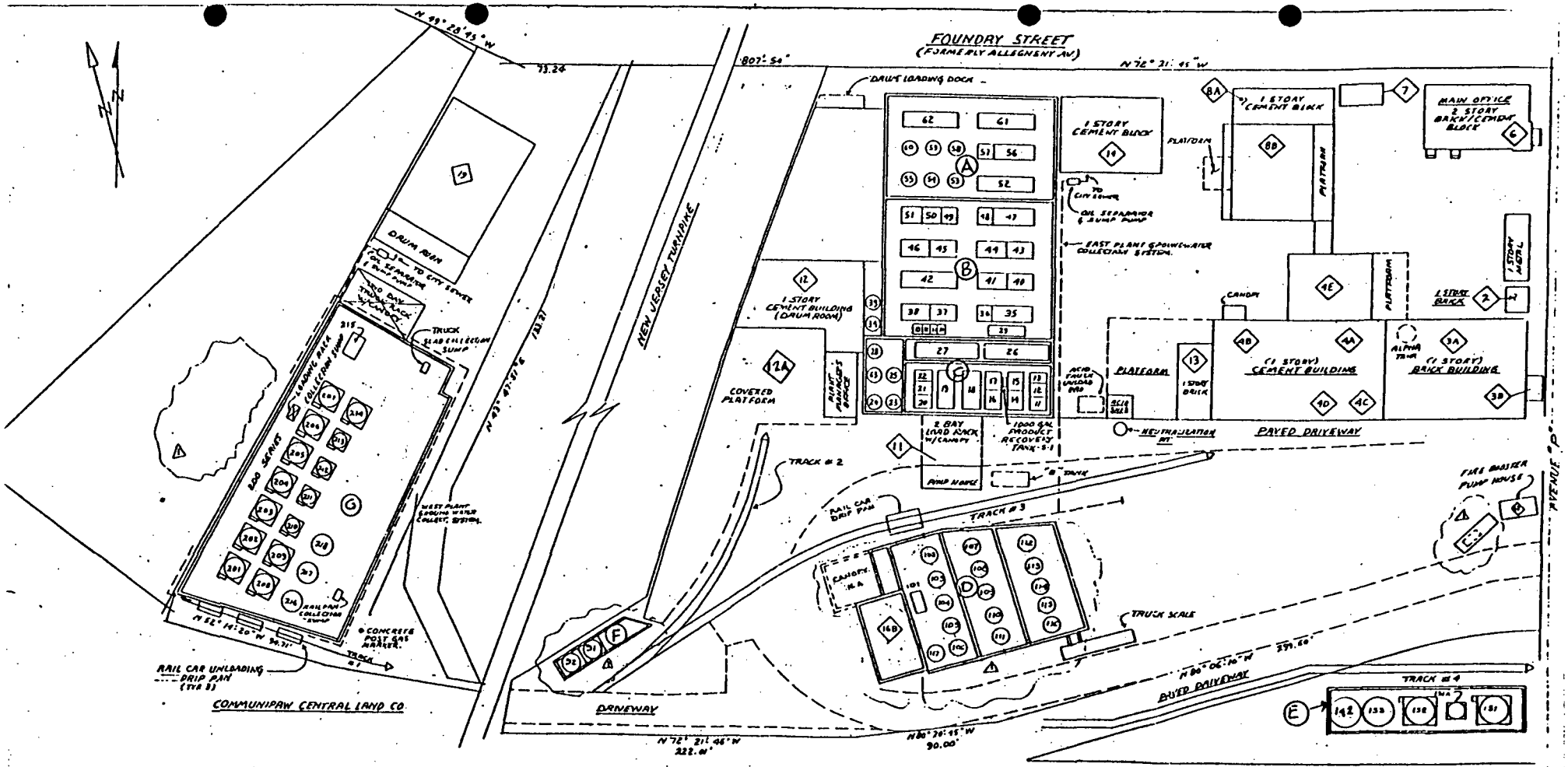
842600086

Closure Plan — 9/21/83
is in
Central File

842600087

SPI K-22

842600088



RAILROAD EMBANKMENT ALL ALONG THIS SIDE
20' ABOVE GRADE

REV	DATE	DESCRIPTION	APPR.
1	4/6/6	REVISED TRACK LAYOUT AREA, RELOCATED THE OIL WATER SEPARATOR & SUMP PUMP, ADDED THE 2000 GAL. PRODUCT RECOVERY TANK & DIKE.	
0	2/11/83	ISSUED FOR APPROVAL	

REVISIONS

ASHLAND CHEMICAL COMPANY
A DIVISION OF ASHLAND OIL, INC.

APPROVED BY DATE

PLANT NEWARK N.J.
UNIT- BLDG.
AREA
DRAWN GBL DATE
SCALE ~
PROJECT NO.
DRAWING NO. 7471-AD-1
REV. 1

PLOT PLAN

SECTION II - Page 3

842600089

SECTION II

NOTES: (1) This site is flat, for more information on drainage See Section IV - Page 56.

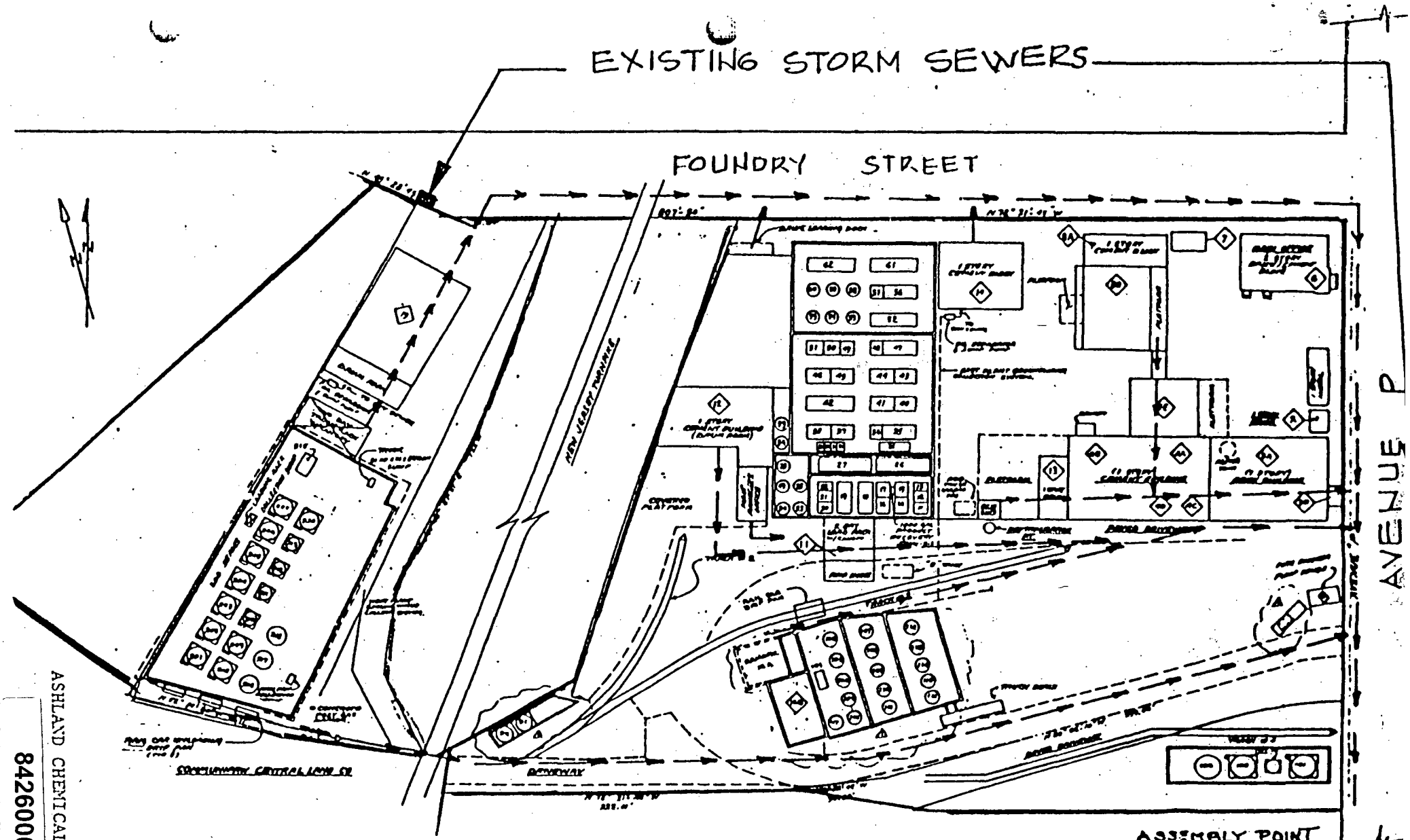
(2) All tanks are located in dike areas.

(3) A reduced plot plan showing sewers adjacent to the property is given on the following page.

(4) The sewer and street in Avenue P flood at any heavy rain or exceptionally high tide.

(5) Ashland is in tne process of completely modernizing this facility. City of Newark approvals have been solicited. Plans are out for bids. State approval is being sought. This modernization project is now scheduled to break ground in the Spring of 1989 and be completed one year later.

842600090


EXISTING STORM SEWERS
FOUNDRY STREET
AVENUE P
NEW JERSEY TURNPIKE
ASSEMBLY POINT
UNDER RR OVERPASS
ASHLAND CHEMICAL COMPANY
PLOT PLAN &
EVACUATION PLAN
7471-AD-1

SECTION III

EMERGENCY AND HAZARDOUS CHEMICAL INVENTORY

842600092

IMPORTANT! Read all instructions before completing.
Photocopy this sheet, if you need additional forms.
Please print or type all responses.

LIQUID IN TANKS

Reporting Period: January 1 - December 31, 1988

842600093

FACILITY IDENTIFICATION AND SITE LOCATION

NJEIN 61-01-222-50

Street Address FOUNDRY STREET AND AVE P

Facility Name ASHLAND CHEMICAL

City NEWARK State NJ Zip 07105

CHEMICAL DESCRIPTION	HAZARDS (Enter for all that apply.)	Inventory (Ranges) (Enter Code)	STORAGE CODES AND LOCATIONS (Enter Codes, except Location(s); supply narrative.)
Substance Name ACETONE CAS No. 0067-61-1 DOT No. 1090 Substance No. (if available) 0006 Percent 60 (Code) State L (Code) Trade Secret ☐ (Check if Claiming)	70	Max. Daily 16 Avg. Daily 15 Days Onsite 365 (Actual Number)	Container 50 Conditions 01 04 Location(s) TK-058 AREA A
Substance Name BLEND-SOLVENT CAS No. — DOT No. — Substance No. (if available) — Percent — (Code) State L (Code) Trade Secret ☐ (Check if Claiming)	70	Max. Daily 13 Avg. Daily 13 Days Onsite 365 (Actual Number)	Container 50 Conditions 01 04 Location(s) TK-023, AREA C
Substance Name BLEND-SOLVENT CAS No. — DOT No. — Substance No. (if available) — Percent — (Code) State L (Code) Trade Secret ☐ (Check if Claiming)	70	Max. Daily 13 Avg. Daily 13 Days Onsite 365 (Actual Number)	Container 50 Conditions 01 04 Location(s) TK-024, AREA C
Substance Name BLEND-SOLVENT CAS No. — DOT No. — Substance No. (if available) — Percent — (Code) State L (Code) Trade Secret ☐ (Check if Claiming)	70	Max. Daily 13 Avg. Daily 13 Days Onsite 365 (Actual Number)	Container 50 Conditions 01 04 Location(s) TK-025, AREA C
Substance Name BLEND-SOLVENT CAS No. — DOT No. — Substance No. (if available) — Percent — (Code) State L (Code) Trade Secret ☐ (Check if Claiming)	70	Max. Daily 13 Avg. Daily 13 Days Onsite 365 (Actual Number)	Container 50 Conditions 01 04 Location(s) TK-063, AREA C
Substance Name BUTYL ACETATE CAS No. 00123-86-4 DOT No. 1123 Substance No. (if available) 1329 Percent 60 (Code) State L (Code) Trade Secret ☐ (Check if Claiming)	70	Max. Daily 15 Avg. Daily 14 Days Onsite 365 (Actual Number)	Container 50 Conditions 01 04 Location(s) TK-046, AREA B
Substance Name BUTYL ALCOHOL CAS No. 00071-36-3 DOT No. 1120 Substance No. (if available) 1330 Percent 60 (Code) State L (Code) Trade Secret ☐ (Check if Claiming)	70	Max. Daily 16 Avg. Daily 15 Days Onsite 365 (Actual Number)	Container 50 Conditions 01 04 Location(s) TK-062, AREA A

See Instruction Booklet for codes.

IMPORTANT! Read all instructions before completing.
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Please print or type all responses.

LIQUID IN TANKS

Reporting Period: January 1 - December 31, 1988

842600094

FACILITY IDENTIFICATION AND SITE LOCATION

NJEIN 61-01-222-50

Street Address FOUNDRY STREET AND AVE P

Facility Name ASHLAND CHEMICAL

City NEWARK State NJ Zip 07105

CHEMICAL DESCRIPTION	HAZARDS	Inventory (Ranges)	STORAGE CODES AND LOCATIONS
Substance Name BUTYL CARBITOL CAS No. 00112-34-5 DOT No. — Substance No. (if available) — Percent 60 State L Trade Secret ☐ (Code) (Code) (Check if Claiming)	(Enter for all that apply.) 70	(Enter Code) Max. Daily 14 Avg. Daily Days Onsite 365 (Actual Number)	(Enter Codes, except Location(s); supply narrative.) Container 50 Conditions 01 04 Location(s) TK-030, AREA B
Substance Name CYCLOHEXANONE CAS No. 00108-94-1 DOT No. 1915 Substance No. (if available) 0570 Percent 60 State L Trade Secret ☐ (Code) (Code) (Check if Claiming)	70	Max. Daily 15 Avg. Daily 14 Days Onsite 365 (Actual Number)	Container 50 Conditions 01 04 Location(s) TK-040, AREA B
Substance Name DIPCETONE ALCOHOL CAS No. 00123-42-2 DOT No. — Substance No. (if available) — Percent 60 State L Trade Secret ☐ (Code) (Code) (Check if Claiming)	70	Max. Daily 14 Avg. Daily 13 Days Onsite 365 (Actual Number)	Container 50 Conditions 01 04 Location(s) TK-051, AREA B
Substance Name DIBUTYL PATHALATE CAS No. 00084-74-2 DOT No. 9095 Substance No. (if available) 0773 Percent 60 State L Trade Secret ☐ (Code) (Code) (Check if Claiming)	70	Max. Daily 15 Avg. Daily 13 Days Onsite 365 (Actual Number)	Container 50 Conditions 01 04 Location(s) TK-109, AREA D
Substance Name DIETHYLENE GLYCOL CAS No. 00111-46-6 DOT No. — Substance No. (if available) — Percent 60 State L Trade Secret ☐ (Code) (Code) (Check if Claiming)	70	Max. Daily 16 Avg. Daily 14 Days Onsite 365 (Actual Number)	Container 50 Conditions 01 04 Location(s) TK-092, AREA F
Substance Name DTL-10 (PETRO. DIST.) CAS No. — DOT No. — Substance No. (if available) — Percent 60 State L Trade Secret ☐ (Code) (Code) (Check if Claiming)	70	Max. Daily 16 Avg. Daily 14 Days Onsite 365 (Actual Number)	Container 50 Conditions 01 04 Location(s) TK-041, AREA B
Substance Name DTL-16 (PETRO. DIST) CAS No. — DOT No. — Substance No. (if available) — Percent 60 State L Trade Secret ☐ (Code) (Code) (Check if Claiming)	70	Max. Daily 15 Avg. Daily 15 Days Onsite 365 (Actual Number)	Container 50 Conditions 01 04 Location(s) TK-013, AREA C

See Instruction Booklet for codes.

IMPORTANT! Read all instructions before completing.
Photocopy this sheet, if you need additional forms.
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LIQUID IN TANKS

Reporting Period: January 1 - December 31, 1988

842600095

FACILITY IDENTIFICATION AND SITE LOCATION

NJEIN 61-01-222-50

Street Address FOUNDRY STREET AND AVE P

Facility Name ASHLAND CHEMICAL

City NEWARK State NJ Zip 07105

CHEMICAL DESCRIPTION	HAZARDS (Enter for all that apply.)	Inventory (Ranges) (Enter Code)	STORAGE CODES AND LOCATIONS (Enter Codes, except Location(s); supply narrative.)
Substance Name ETHYL ACETATE 99 CAS No. 00141-78-6 DOT No. 1173 Substance No. (if available) 0841 Percent 99 (Code) State L (Code) Trade Secret ☐ (Check if Claiming)	70	Max. Daily 16 Avg. Daily 14 Days Onsite 365 (Actual Number)	Container 50 Conditions 01 04 Location(s) TK-115, AREA D
Substance Name ETHYL ALCOHOL CAS No. 00064-17-5 DOT No. 1170 Substance No. (if available) 0844 Percent 60 (Code) State L (Code) Trade Secret ☐ (Check if Claiming)	70	Max. Daily 15 Avg. Daily 13 Days Onsite 365 (Actual Number)	Container 50 Conditions 01 04 Location(s) TK-047, AREA B
Substance Name FUEL OIL CAS No. 68476-34-6 DOT No. 1993 Substance No. (if available) 2444 Percent 60 (Code) State L (Code) Trade Secret ☐ (Check if Claiming)	70	Max. Daily 15 Avg. Daily 15 Days Onsite 365 (Actual Number)	Container 50 Conditions 01 04 Location(s) TK-039, AREA B
Substance Name FUEL OIL CAS No. 68476-34-6 DOT No. 1993 Substance No. (if available) 2444 Percent 60 (Code) State L (Code) Trade Secret ☐ (Check if Claiming)	70	Max. Daily 13 Avg. Daily 13 Days Onsite 365 (Actual Number)	Container 50 Conditions 01 04 Location(s) TK-142, AREA E
Substance Name FUEL OIL CAS No. 68476-34-6 DOT No. 1993 Substance No. (if available) 2444 Percent 60 (Code) State L (Code) Trade Secret ☐ (Check if Claiming)	70	Max. Daily 15 Avg. Daily 15 Days Onsite 365 (Actual Number)	Container 50 Conditions 01 04 Location(s) TK-215, AREA G
Substance Name GLYCOL ETHER EB CAS No. 00111-76-2 DOT No. — Substance No. (if available) — Percent 60 (Code) State L (Code) Trade Secret ☐ (Check if Claiming)	70	Max. Daily 16 Avg. Daily 15 Days Onsite 365 (Actual Number)	Container 50 Conditions 01 04 Location(s) TK-052, AREA A
Substance Name HEXANE CAS No. 00110-54-3 DOT No. 1208 Substance No. (if available) 1340 Percent 60 (Code) State L (Code) Trade Secret ☐ (Check if Claiming)	70	Max. Daily 15 Avg. Daily 14 Days Onsite 365 (Actual Number)	Container 50 Conditions 01 04 Location(s) TK-043, AREA B

See Instruction Booklet for codes.

IMPORTANT! Read all instructions before completing.
Photocopy this sheet, if you need additional forms.
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LIQUID IN TANKS

Reporting Period: January 1 - December 31, 1988

842600096

FACILITY IDENTIFICATION AND SITE LOCATION

NJEIN 61-01-222-50

Street Address FOUNDRY STREET AND AVE P

Facility Name ASHLAND CHEMICAL

City NEWARK State NJ Zip 07105

CHEMICAL DESCRIPTION	HAZARDS (Enter for all that apply.)	Inventory (Ranges) (Enter Code)	STORAGE CODES AND LOCATIONS (Enter Codes, except Location(s); supply narrative.)
Substance Name HI-SOL 10 (AROMATIC HC) CAS No. 64742-95-6 DOT No. – Substance No. (if available) – Percent 60 (Code) State L (Code) Trade Secret ☐ (Check if Claiming)	70	Max. Daily 15 Avg. Daily 15 Days Onsite 365 (Actual Number)	Container 50 Conditions 01 04 Location(s) TK-038, AREA B
Substance Name HI-SOL 15 (AROMATIC HC) CAS No. 64742-95-6 DOT No. – Substance No. (if available) – Percent 60 (Code) State L (Code) Trade Secret ☐ (Check if Claiming)	70	Max. Daily 14 Avg. Daily 14 Days Onsite 365 (Actual Number)	Container 50 Conditions 01 04 Location(s) TK-011, AREA C
Substance Name HI-SOL 15 (AROMATIC HC) CAS No. 64742-95-6 DOT No. – Substance No. (if available) – Percent 60 (Code) State L (Code) Trade Secret ☐ (Check if Claiming)	70	Max. Daily 14 Avg. Daily 14 Days Onsite 365 (Actual Number)	Container 50 Conditions 01 04 Location(s) TK-012, AREA C
Substance Name HI-SOL 400 (AROMATIC HC) CAS No. 64741-41-9 DOT No. – Substance No. (if available) – Percent 60 (Code) State L (Code) Trade Secret ☐ (Check if Claiming)	70	Max. Daily 15 Avg. Daily 14 Days Onsite 365 (Actual Number)	Container 50 Conditions 01 04 Location(s) TK-108, AREA D
Substance Name HV AROMATIC SOLVENT CAS No. 64741-41-9 DOT No. – Substance No. (if available) – Percent 60 (Code) State L (Code) Trade Secret ☐ (Check if Claiming)	70	Max. Daily 16 Avg. Daily 14 Days Onsite 365 (Actual Number)	Container 50 Conditions 01 04 Location(s) TK-059, AREA A
Substance Name ISOBUTYL ACETATE CAS No. 00110-19-0 DOT No. 1213 Substance No. (if available) 1041 Percent 60 (Code) State L (Code) Trade Secret ☐ (Check if Claiming)	70	Max. Daily 14 Avg. Daily 14 Days Onsite 365 (Actual Number)	Container 50 Conditions 01 04 Location(s) TK-036, AREA B
Substance Name ISOBUTYL ALCOHOL CAS No. 00078-83-1 DOT No. 1212 Substance No. (if available) 1043 Percent ____ (Code) State ____ (Code) Trade Secret ☐ (Check if Claiming)	70	Max. Daily 15 Avg. Daily 12 Days Onsite 365 (Actual Number)	Container 50 Conditions 01 04 Location(s) TK-050, AREA B

See Instruction Booklet for codes.

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LIQUID IN TANKS

Reporting Period: January 1 - December 31, 1988

842600097

FACILITY IDENTIFICATION AND SITE LOCATION

NJEIN 61-01-222-50

Street Address FOUNDRY STREET AND AVE P

Facility Name ASHLAND CHEMICAL

City NEWARK State NJ Zip 07105

CHEMICAL DESCRIPTION	HAZARDS (Enter for all that apply.)	Inventory (Ranges) (Enter Code)	STORAGE CODES AND LOCATIONS (Enter Codes, except Location(s); supply narrative.)
Substance Name METHANOL CAS No. 0067-56-1 DOT No. 1230 Substance No. (if available) 1222 Percent 60 (Code) State L (Code) Trade Secret ☐ (Check if Claiming)	70	Max. Daily 16 Avg. Daily 14 Days Onsite 365 (Actual Number)	Container 50 Conditions 01 04 Location(s) TK-060, AREA A
Substance Name METHYL ETHYL KETONE CAS No. 00078-93-3 DOT No. 1193 Substance No. (if available) 1258 Percent 60 (Code) State L (Code) Trade Secret ☐ (Check if Claiming)	70	Max. Daily 16 Avg. Daily 14 Days Onsite 365 (Actual Number)	Container 50 Conditions 01 04 Location(s) TK-053, AREA A
Substance Name METHYL ISOBUTYL KETONE CAS No. 00108-10-1 DOT No. 1245 Substance No. (if available) 1268 Percent 60 (Code) State L (Code) Trade Secret ☐ (Check if Claiming)	70	Max. Daily 16 Avg. Daily 14 Days Onsite 365 (Actual Number)	Container 50 Conditions 01 04 Location(s) TK-027, AREA C
Substance Name METHYLENE CHLORIDE CAS No. 00075-09-2 DOT No. 1593 Substance No. (if available) 1255 Percent 60 (Code) State L (Code) Trade Secret ☐ (Check if Claiming)	66 TOXIC VOC	Max. Daily 15 Avg. Daily 15 Days Onsite 365 (Actual Number)	Container 50 Conditions 01 04 Location(s) TK-049, AREA B
Substance Name MINERAL SEAL OIL CAS No. 64742-06-9 DOT No. — Substance No. (if available) — Percent 60 (Code) State L (Code) Trade Secret ☐ (Check if Claiming)	70	Max. Daily 15 Avg. Daily 13 Days Onsite 365 (Actual Number)	Container 50 Conditions 01 04 Location(s) TK-044, AREA B
Substance Name MINERAL SPIRITS CAS No. 08052-41-3 DOT No. — Substance No. (if available) — Percent 60 (Code) State L (Code) Trade Secret ☐ (Check if Claiming)	70	Max. Daily 16 Avg. Daily 16 Days Onsite 365 (Actual Number)	Container 50 Conditions 01 04 Location(s) TK-055, AREA A
Substance Name MINERAL SPIRITS CAS No. 08052-41-3 DOT No. — Substance No. (if available) — Percent 60 (Code) State L (Code) Trade Secret ☐ (Check if Claiming)	70	Max. Daily 16 Avg. Daily 14 Days Onsite 365 (Actual Number)	Container 50 Conditions 01 04 Location(s) TK-107, AREA D

See Instruction Booklet for codes.

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LIQUID IN TANKS

Reporting Period: January 1 - December 31, 1988

842600098

FACILITY IDENTIFICATION AND SITE LOCATION

NJEIN 61-01-222-50

Street Address FOUNDRY STREET AND AVE P

Facility Name ASHLAND CHEMICAL

City NEWARK State NJ Zip 07105

CHEMICAL DESCRIPTION	HAZARDS (Enter for all that apply.)	Inventory (Ranges) (Enter Code)	STORAGE CODES AND LOCATIONS (Enter Codes, except Location(s); supply narrative.)
Substance Name ISOPROPYL ACETATE CAS No. 00108-21-4 DOT No. 1220 Substance No. (if available) 1074 Percent 59 (Code) State L (Code) Trade Secret ☐ (Check if Claiming)	70	Max. Daily 15 Avg. Daily 15 Days Onsite 365 (Actual Number)	Container 50 Conditions 01 04 Location(s) TK-015, AREA C
Substance Name ISO PROPYL ALCOHOL CAS No. 00067-63-0 DOT No. 1219 Substance No. (if available) 1076 Percent 60 (Code) State L (Code) Trade Secret ☐ (Check if Claiming)	70	Max. Daily 16 Avg. Daily 14 Days Onsite 365 (Actual Number)	Container 50 Conditions 01 04 Location(s) TK-035, AREA B
Substance Name ISOPROPYL ETHER CAS No. 00108-20-3 DOT No. 1159 Substance No. (if available) 0730 Percent 60 (Code) State L (Code) Trade Secret ☐ (Check if Claiming)	70	Max. Daily 16 Avg. Daily 16 Days Onsite 365 (Actual Number)	Container 50 Conditions 01 04 Location(s) TK-114, AREA D
Substance Name KWIK DRI 66 CAS No. 08052-41-3 DOT No. — Substance No. (if available) — Percent 60 (Code) State L (Code) Trade Secret ☐ (Check if Claiming)	70	Max. Daily 16 Avg. Daily 15 Days Onsite 365 (Actual Number)	Container 50 Conditions 01 04 Location(s) TK-054, AREA A
Substance Name LACOLENE CAS No. 64742-89-8 DOT No. — Substance No. (if available) — Percent 60 (Code) State L (Code) Trade Secret ☐ (Check if Claiming)	70	Max. Daily 15 Avg. Daily 15 Days Onsite 365 (Actual Number)	Container 50 Conditions 01 04 Location(s) TK-016, AREA C
Substance Name LACOLENE CAS No. 64742-89-8 DOT No. — Substance No. (if available) — Percent 60 (Code) State L (Code) Trade Secret ☐ (Check if Claiming)	70	Max. Daily 15 Avg. Daily 15 Days Onsite 365 (Actual Number)	Container 50 Conditions 01 04 Location(s) TK-017, AREA C
Substance Name LINE FLUSH CAS No. — — — DOT No. — Substance No. (if available) Percent 60 (Code) State L (Code) Trade Secret ☒ (Check if Claiming)	70	Max. Daily 14 Avg. Daily 13 Days Onsite 365 (Actual Number)	Container 50 Conditions 01 04 Location(s) TK-022, AREA C

See Instruction Booklet for codes.

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LIQUID IN TANKS

Reporting Period: January 1 - December 31, 1988

FACILITY IDENTIFICATION AND SITE LOCATION

NJEIN 61-01-222-50

Street Address FOUNDRY STREET AND AVE P

Facility Name ASHLAND CHEMICAL

City NEWARK State NJ Zip 07105

84260099

CHEMICAL DESCRIPTION	HAZARDS (Enter for all that apply.)	Inventory (Ranges) (Enter Code)	STORAGE CODES AND LOCATIONS (Enter Codes, except Location(s); supply narrative.)
Substance Name MINERAL SPIRITS CAS No. 08052-41-3 DOT No. — Substance No. (if available) — Percent 60 (Code) State L (Code) Trade Secret ☐ (Check if Claiming)	70	Max. Daily 16 Avg. Daily 14 Days Onsite 365 (Actual Number)	Container 50 Conditions 01 04 Location(s) TK-112, AREA D
Substance Name MINERAL SPIRITS CAS No. 08052-41-3 DOT No. — Substance No. (if available) — Percent 60 (Code) State L (Code) Trade Secret ☐ (Check if Claiming)	70	Max. Daily 16 Avg. Daily 14 Days Onsite 365 (Actual Number)	Container 50 Conditions 01 04 Location(s) TK-113, AREA D
Substance Name MINERAL SPIRITS CAS No. 08052-41-3 DOT No. — Substance No. (if available) — Percent 60 (Code) State L (Code) Trade Secret ☐ (Check if Claiming)	70	Max. Daily 15 Avg. Daily 14 Days Onsite 365 (Actual Number)	Container 50 Conditions 01 04 Location(s) TK-045, AREA B
Substance Name OIL 1309 CAS No. — DOT No. — Substance No. (if available) — Percent 60 (Code) State L (Code) Trade Secret ☒ (Check if Claiming)	70	Max. Daily 15 Avg. Daily 13 Days Onsite 365 (Actual Number)	Container 50 Conditions 01 04 Location(s) TK-028, AREA C
Substance Name PERCHLOROETHYLENE CAS No. 00127-18-4 DOT No. 1897 Substance No. (if available) 1810 Percent 60 (Code) State L (Code) Trade Secret ☐ (Check if Claiming)	66 TOXIC VOC	Max. Daily 15 Avg. Daily 14 Days Onsite 365 (Actual Number)	Container 50 Conditions 01 04 Location(s) TK-021, AREA C
Substance Name PM ACETATE CAS No. 01331-17-5 DOT No. — Substance No. (if available) 2712 Percent 60 (Code) State L (Code) Trade Secret ☐ (Check if Claiming)	70	Max. Daily 14 Avg. Daily 13 Days Onsite 365 (Actual Number)	Container 50 Conditions 01 04 Location(s) TK-032, AREA B
Substance Name PROPANOL CAS No. 0071-23-8 DOT No. 1219 Substance No. (if available) 1605 Percent 60 (Code) State L (Code) Trade Secret ☐ (Check if Claiming)	70	Max. Daily 14 Avg. Daily 14 Days Onsite 365 (Actual Number)	Container 50 Conditions 01 04 Location(s) TK-020, AREA C

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LIQUID IN TANKS

Reporting Period: January 1 - December 31, 1988

8426001000

FACILITY IDENTIFICATION AND SITE LOCATION

NJEIN 61-01-222-50

Street Address FOUNDRY STREET AND AVE P

Facility Name ASHLAND CHEMICAL

City NEWARK State NJ Zip 07105

CHEMICAL DESCRIPTION	HAZARDS (Enter for all that apply.)	Inventory (Ranges) (Enter Code)	STORAGE CODES AND LOCATIONS (Enter Codes, except Location(s); supply narrative.)
Substance Name PROPYLACETATE CAS No. 00109-60-4 DOT No. 1276 Substance No. (if available) 1419 Percent 60 (Code) State L (Code) Trade Secret ☐ (Check if Claiming)	70	Max. Daily 15 Avg. Daily 14 Days Onsite 365 (Actual Number)	Container 50 Conditions 01 04 Location(s) TK-014, AREA C
Substance Name TOLUENE CAS No. 00108-88-3 DOT No. 1294 Substance No. (if available) 1866 Percent 60 (Code) State L (Code) Trade Secret ☐ (Check if Claiming)	70	Max. Daily 16 Avg. Daily 14 Days Onsite 365 (Actual Number)	Container 50 Conditions 01 04 Location(s) TK-061, AREA A
Substance Name TRICHLOROETHANE CAS No. 3071-55-6 DOT No. 2831 Substance No. (if available) 1237 Percent ___ (Code) State ___ (Code) Trade Secret ☐ (Check if Claiming)	66 Toxic VOC	Max. Daily 15 Avg. Daily 14 Days Onsite 365 (Actual Number)	Container 50 Conditions 01 04 Location(s) TK-104, AREA D
Substance Name VM&P NAPTHA CAS No. 64742-89-8 DOT No. — Substance No. (if available) — Percent ___ (Code) State ___ (Code) Trade Secret ☐ (Check if Claiming)	70	Max. Daily 16 Avg. Daily 15 Days Onsite 365 (Actual Number)	Container 50 Conditions 01 04 Location(s) TK-056, AREA A
Substance Name VM&P NAPTHA CAS No. — DOT No. — Substance No. (if available) — Percent 60 (Code) State L (Code) Trade Secret ☐ (Check if Claiming)	70	Max. Daily 14 Avg. Daily 14 Days Onsite 365 (Actual Number)	Container 50 Conditions 01 04 Location(s) TK-057, AREA A
Substance Name VM&P NAPTHA CAS No. — DOT No. — Substance No. (if available) — Percent 60 (Code) State L (Code) Trade Secret ☐ (Check if Claiming)	70	Max. Daily 16 Avg. Daily 15 Days Onsite 365 (Actual Number)	Container 50 Conditions 01 04 Location(s) TK-217, AREA G
Substance Name VM&P NAPTHA CAS No. — DOT No. — Substance No. (if available) — Percent 60 (Code) State L (Code) Trade Secret ☐ (Check if Claiming)	70	Max. Daily 16 Avg. Daily 15 Days Onsite 365 (Actual Number)	Container 50 Conditions 01 04 Location(s) TK-216, AREA G

See Instruction Booklet for codes

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LIQUID IN TANKS

Reporting Period: January 1 - December 31, 1988

842600101

FACILITY IDENTIFICATION AND SITE LOCATION

NJEIN 61-01-222-50

Street Address FOUNDRY STREET AND AVE P

Facility Name ASHLAND CHEMICAL

City NEWARK State NJ Zip 07105

CHEMICAL DESCRIPTION	HAZARDS	Inventory (Ranges)	STORAGE CODES AND LOCATIONS
Substance Name VM & P NAPTHA CAS No. — - — - — DOT No. — Substance No. (if available) — Percent 60 State L Trade Secret ☐ (Code) (Code) (Check if Claiming)	(Enter for all that apply.) 70 — — — — — —	(Enter Code) Max. Daily 16 Avg. Daily 15 Days Onsite 365 (Actual Number)	(Enter Codes, except Location(s); supply narrative.) Container 50 Conditions 01 04 Location(s) TK-218, AREA G
Substance Name XYLENE CAS No. 01330-20-7 DOT No. 1307 Substance No. (if available) 2014 Percent 60 State L Trade Secret ☐ (Code) (Code) (Check if Claiming)	70 — — — — — —	Max. Daily 16 Avg. Daily 16 Days Onsite 365 (Actual Number)	Container 50 Conditions 01 04 Location(s) TK-042, AREA B
Substance Name DIOCTYL PHTHALATE CAS No. 00117-81-7 DOT No. — Substance No. (if available) 0787 Percent 60 State L Trade Secret ☐ (Code) (Code) (Check if Claiming)	70 — — — — — —	Max. Daily 16 Avg. Daily 15 Days Onsite 365 (Actual Number)	Container 50 Conditions 01 04 Location(s) TK-102, AREA D
Substance Name CAS No. - - DOT No. Substance No. (if available) Percent State Trade Secret ☐ (Code) (Code) (Check if Claiming)	— — — — — —	Max. Daily Avg. Daily Days Onsite (Actual Number)	Container Conditions Location(s)
Substance Name CAS No. - - DOT No. Substance No. (if available) Percent State Trade Secret ☐ (Code) (Code) (Check if Claiming)	— — — — — —	Max. Daily Avg. Daily Days Onsite (Actual Number)	Container Conditions Location(s)
Substance Name CAS No. - - DOT No. Substance No. (if available) Percent State Trade Secret ☐ (Code) (Code) (Check if Claiming)	— — — — — —	Max. Daily Avg. Daily Days Onsite (Actual Number)	Container Conditions Location(s)
Substance Name CAS No. - - DOT No. Substance No. (if available) Percent State Trade Secret ☐ (Code) (Code) (Check if Claiming)	— — — — — —	Max. Daily Avg. Daily Days Onsite (Actual Number)	Container Conditions Location(s)

See Instruction Booklet for codes.

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MATERIAL IN DRUMS, BAGS & CARTONS Reporting Period: January 1 - December 31, 1988

842600102

FACILITY IDENTIFICATION AND SITE LOCATION

NJEIN 61-01-222-50

Facility Name ASHLAND CHEMICAL

Street Address FOUNDRY STREET AND AVE P

City NEWARK State NJ Zip 07105

CHEMICAL DESCRIPTION	HAZARDS	Inventory (Ranges)	STORAGE CODES AND LOCATIONS
Substance Name HEAVY AROMATIC SOLVENT CAS No. 64741-41-9 DOT No. — Substance No. (if available) — Percent 60 State L Trade Secret ☐ (Code) (Code) (Check if Claiming)	(Enter for all that apply.) 70	(Enter Code) Max. Daily 14 Avg. Daily 14 Days Onsite 365 (Actual Number)	(Enter Codes, except Location(s); supply narrative.) Container 47 Conditions 01 04 Location(s) BLDG. 12A
Substance Name XYLENE CAS No. 01330-20-7 DOT No. 1307 Substance No. (if available) 2014 Percent 60 State L Trade Secret ☐ (Code) (Code) (Check if Claiming)	70	Max. Daily 13 Avg. Daily 13 Days Onsite 365 (Actual Number)	Container 47 Conditions 01 04 Location(s) BLDG. 12A
Substance Name AME SOLVENT BLEND CAS No. — - - DOT No. — Substance No. (if available) — Percent ___ State ___ Trade Secret ☐ (Code) (Code) (Check if Claiming)	70	Max. Daily 14 Avg. Daily 14 Days Onsite 365 (Actual Number)	Container 47 Conditions 01 04 Location(s) BLDG. 12A
Substance Name KDHS 10 SOLV. BLEND CAS No. — - - DOT No. ___ Substance No. (if available) ___ Percent ___ State ___ Trade Secret ☐ (Code) (Code) (Check if Claiming)	70	Max. Daily 14 Avg. Daily 14 Days Onsite 365 (Actual Number)	Container 47 Conditions 01 04 Location(s) BLDG 12A
Substance Name SUPERLAC CAS No. — - - DOT No. ___ Substance No. (if available) ___ Percent ___ State ___ Trade Secret ☐ (Code) (Code) (Check if Claiming)	70	Max. Daily 13 Avg. Daily 13 Days Onsite 365 (Actual Number)	Container 47 Conditions 01 04 Location(s) BLDG. 12A
Substance Name HEPTANE CAS No. 00142-82-5 DOT No. 1206 Substance No. (if available) 1339 Percent ___ State ___ Trade Secret ☐ (Code) (Code) (Check if Claiming)	70	Max. Daily 13 Avg. Daily 13 Days Onsite 365 (Actual Number)	Container 47 Conditions 01 04 Location(s) BLDG. 12A
Substance Name KEROSENE CAS No. 08008-20-6 DOT No. 1223 Substance No. (if available) 1091 Percent 60 State L Trade Secret ☐ (Code) (Code) (Check if Claiming)	70	Max. Daily 13 Avg. Daily 13 Days Onsite 365 (Actual Number)	Container 47 Conditions 01 04 Location(s) BLDG. 12A

See Instruction Booklet for codes.

842600103

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MATERIAL IN DRUMS, BAGS & CARTONS

Reporting Period: January 1 - December 31, 1988

FACILITY IDENTIFICATION AND SITE LOCATION

NJEIN 61-01-222-50

Street Address FOUNDRY STREET AND AVE P

Facility Name ASHLAND CHEMICAL

City NEWARK State NJ Zip 07105

CHEMICAL DESCRIPTION	HAZARDS	Inventory (Ranges)	STORAGE CODES AND LOCATIONS
Substance Name SOLTROL 170 CAS No. ___-___-___ DOT No. ___ Substance No. (if available) ___ Percent ___ State L Trade Secret ☐ (Code) (Code) (Check if Claiming)	(Enter for all that apply.) 70	(Enter Code) Max. Daily 15 Avg. Daily 15 Days Onsite 365 (Actual Number)	(Enter Codes, except Location(s); supply narrative.) Container 47 Conditions 01 04 Location(s) BLDG. 12A
Substance Name SOLVENT-140-66 CAS No. 64742-88-7 DOT No. ___ Substance No. (if available) ___ Percent ___ State L Trade Secret ☐ (Code) (Code) (Check if Claiming)	70	Max. Daily 15 Avg. Daily 14 Days Onsite 365 (Actual Number)	Container 47 Conditions 01 04 Location(s) BLDG. 12A
Substance Name MINERAL SPIRITS CAS No. 08052-41-3 DOT No. — Substance No. (if available) — Percent ___ State L Trade Secret ☐ (Code) (Code) (Check if Claiming)	70	Max. Daily 14 Avg. Daily 14 Days Onsite 365 (Actual Number)	Container 47 Conditions 01 04 Location(s) BLDG. 12A & 16B
Substance Name LACTANE CAS No. — DOT No. — Substance No. (if available) — Percent ___ State L Trade Secret ☐ (Code) (Code) (Check if Claiming)	70	Max. Daily 14 Avg. Daily 13 Days Onsite 365 (Actual Number)	Container 47 Conditions 01 04 Location(s) BLDG. 12A
Substance Name ACETIC ACID CAS No. 00064-19-7 DOT No. 2789 Substance No. (if available) 0004 Percent 59 State L Trade Secret ☐ (Code) (Code) (Check if Claiming)	70	Max. Daily 14 Avg. Daily 14 Days Onsite 365 (Actual Number)	Container 47 Conditions 01 04 Location(s) BLDG. 12A
Substance Name GLYCOL ETHER P.R. CAS No. — DOT No. ___ Substance No. (if available) ___ Percent 60 State L Trade Secret ☐ (Code) (Code) (Check if Claiming)	70	Max. Daily 14 Avg. Daily 14 Days Onsite 365 (Actual Number)	Container 47 Conditions 01 04 Location(s) BLDG. 12A
Substance Name AQUA AMMONIA CAS No. 07664-41-7 DOT No. 1005 Substance No. (if available) 0084 Percent ___ State ___ Trade Secret ☐ (Code) (Code) (Check if Claiming)	67	Max. Daily 13 Avg. Daily 13 Days Onsite 365 (Actual Number)	Container 47 Conditions 01 04 Location(s) BLDG. 3A

See Instruction Booklet for codes.

IMPORTANT! Read all instructions before completing. Photocopy this sheet, if you need additional forms. Please print or type all responses.

MATERIAL IN DRUMS, BAGS & CARTONS

Reporting Period: January 1 - December 31, 1988

842600104

FACILITY IDENTIFICATION AND SITE LOCATION

NJEIN 61-01-222-50

Street Address FOUNDRY STREET AND AVE P

Facility Name ASHLAND CHEMICAL

City NEWARK State NJ Zip 07105

CHEMICAL DESCRIPTION	HAZARDS	Inventory (Ranges)	STORAGE CODES AND LOCATIONS
	(Enter for all that apply.)	(Enter Code)	(Enter Codes, except Location(s); supply narrative.)
Substance Name GLYCOL ETHER DB CAS No. ___-___-___ DOT No. ___ Substance No. (if available) ___ Percent 60 (Code) State L (Code) Trade Secret ☐ (Check if Claiming)	70	Max. Daily 14 Avg. Daily 14 Days Onsite 365 (Actual Number)	Container 47 Conditions 01 04 Location(s) BLDG.
Substance Name GLYCOL ETHEREB ACEMATE CAS No. ___-___-___ DOT No. ___ Substance No. (if available) ___ Percent 60 (Code) State L (Code) Trade Secret ☐ (Check if Claiming)	70	Max. Daily 14 Avg. Daily 14 Days Onsite 365 (Actual Number)	Container 47 Conditions 01 04 Location(s) BLDG.
Substance Name SODIUM SULFATE ANH CAS No. 7757-82-6 DOT No. — Substance No. (if available) 2906 Percent 60 (Code) State S (Code) Trade Secret ☐ (Check if Claiming)	67	Max. Daily 14 Avg. Daily 13 Days Onsite 365 (Actual Number)	Container 42 Conditions 01 04 Location(s) BLDG. 3A
Substance Name POLYETHYLENE GLYCOL 200 CAS No. ___-___-___ DOT No. ___ Substance No. (if available) ___ Percent 60 (Code) State L (Code) Trade Secret ☐ (Check if Claiming)	70	Max. Daily 13 Avg. Daily 13 Days Onsite 365 (Actual Number)	Container 47 Conditions 01 04 Location(s) BLDG. 12A
Substance Name Polyethylene Glycol 600 CAS No. ___-___-___ DOT No. ___ Substance No. (if available) ___ Percent 60 (Code) State L (Code) Trade Secret ☐ (Check if Claiming)	70	Max. Daily 13 Avg. Daily 13 Days Onsite 365 (Actual Number)	Container 47 Conditions 01 04 Location(s) BLDG. 12A
Substance Name CAUSTIC POTASH CAS No. 01310-58-3 DOT No. 1813 Substance No. (if available) 1571 Percent 54 (Code) State L (Code) Trade Secret ☐ (Check if Claiming)	67	Max. Daily 14 Avg. Daily 14 Days Onsite 365 (Actual Number)	Container 47 Conditions 01 04 Location(s) BLDG. 12A
Substance Name CAUSTIC SODA CAS No. 01310-73-2 DOT No. 1823 Substance No. (if available) 1706 Percent 55 (Code) State LS (Code) Trade Secret ☐ (Check if Claiming)	67	Max. Daily 15 Avg. Daily 14 Days Onsite 365 (Actual Number)	Container 47 Conditions 01 04 Location(s) BLDG 12A

See Instruction Booklet for codes.

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MATERIAL IN DRUMS, BAGS & CARTONS

Reporting Period: January 1 - December 31, 1988

842600105

FACILITY IDENTIFICATION AND SITE LOCATION

NJEIN 61-01-222-50

Street Address FOUNDRY STREET AND AVE P

Facility Name ASHLAND CHEMICAL

City NEWARK State NJ Zip 07105

CHEMICAL DESCRIPTION	HAZARDS (Enter for all that apply.)	Inventory (Ranges) (Enter Code)	STORAGE CODES AND LOCATIONS (Enter Codes, except Location(s); supply narrative.)
Substance Name CAUSTIC SODA BD CAS No. 01310-73-2 DOT No. 1823 Substance No. (if available) 1706 Percent 60 State L Trade Secret ☐ (Code) (Code) (Check if Claiming)	67	Max. Daily 13 Avg. Daily 13 Days Onsite 365 (Actual Number)	Container 47 Conditions 01 04 Location(s) BLDG. 8B
Substance Name GLYCOL ETHER EE ACETATE CAS No. 00111-15-9 DOT No. — Substance No. (if available) — Percent 60 State L Trade Secret ☐ (Code) (Code) (Check if Claiming)	70	Max. Daily 13 Avg. Daily 13 Days Onsite 365 (Actual Number)	Container 47 Conditions 01 04 Location(s) BLDG. 12A
Substance Name GLYCOL ETHER EE CAS No. 00110-80-5 DOT No. — Substance No. (if available) — Percent — State L Trade Secret ☐ (Code) (Code) (Check if Claiming)	70	Max. Daily 13 Avg. Daily 13 Days Onsite 365 (Actual Number)	Container 47 Conditions 01 04 Location(s) BLDG. 12A
Substance Name CHLOROFORM TECH CAS No. 00067-66-3 DOT No. 1888 Substance No. (if available) 0388 Percent 59 State L Trade Secret ☐ (Code) (Code) (Check if Claiming)	67	Max. Daily 14 Avg. Daily 14 Days Onsite 365 (Actual Number)	Container 47 Conditions 01 04 Location(s) BLDG 8B
Substance Name DIETHYL PHTHALATE CAS No. — DOT No. — Substance No. (if available) — Percent 60 State L Trade Secret ☐ (Code) (Code) (Check if Claiming)	70	Max. Daily 13 Avg. Daily 13 Days Onsite 365 (Actual Number)	Container 47 Conditions 01 04 Location(s) BLDG. 16B
Substance Name DIISOPROPYL ETHER CAS No. 00108-18-9 DOT No. 1158 Substance No. (if available) 0728 Percent 60 State L Trade Secret ☐ (Code) (Code) (Check if Claiming)	70 66 Toxic VOC	Max. Daily 13 Avg. Daily 13 Days Onsite 365 (Actual Number)	Container 47 Conditions 01 04 Location(s) BLDG. 16B
Substance Name DIMETHYL FORMAMIDE CAS No. 00068-12-2 DOT No. 2265 Substance No. (if available) 0759 Percent 60 State L Trade Secret ☐ (Code) (Code) (Check if Claiming)	70	Max. Daily 13 Avg. Daily 13 Days Onsite 365 (Actual Number)	Container 47 Conditions 01 04 Location(s) BLDG. 12A

See Instruction Booklet for codes.

842600106

IMPORTANT! Read all instructions before completing.
Photocopy this sheet, if you need additional forms.
Please print or type all responses.

MATERIALS IN DRUMS, BAGS & CARTONS

Reporting Period: January 1 - December 31, 198

FACILITY IDENTIFICATION AND SITE LOCATION

NJEIN 61-01-222-50

Street Address FOUNDRY STREET AND AVE P

Facility Name ASHLAND CHEMICAL

City NEWARK State NJ Zip 07105

CHEMICAL DESCRIPTION	HAZARDS (Enter for all that apply.)	Inventory (Ranges) (Enter Code)	STORAGE CODES AND LOCATIONS (Enter Codes, except Location(s); supply narrative.)
Substance Name GLYCOL ETHER PM ACETATE CAS No. 00108-65-6 DOT No. — Substance No. (if available) — Percent 60 (Code) State L (Code) Trade Secret ☐ (Check if Claiming)	70	Max. Daily 13 Avg. Daily 13 Days Onsite 365 (Actual Number)	Container 47 Conditions 01 04 Location(s) BLDG. 12A
Substance Name ETHYLENE GLYCOL CAS No. 00107-21-1 DOT No. 1142 Substance No. (if available) 0878 Percent 60 (Code) State L (Code) Trade Secret ☐ (Check if Claiming)	70	Max. Daily 14 Avg. Daily 13 Days Onsite 365 (Actual Number)	Container 47 Conditions 01 04 Location(s) BLDG. 12A
Substance Name ESTER SOLVENT EEP CAS No. — DOT No. — Substance No. (if available) — Percent 60 (Code) State L (Code) Trade Secret ☐ (Check if Claiming)	70	Max. Daily 13 Avg. Daily 13 Days Onsite 365 (Actual Number)	Container 47 Conditions 01 04 Location(s) BLDG. 12A
Substance Name GLUCONIC AC. 50% CAS No. — DOT No. — Substance No. (if available) — Percent 60 (Code) State L (Code) Trade Secret ☐ (Check if Claiming)	70	Max. Daily 13 Avg. Daily 13 Days Onsite 365 (Actual Number)	Container 47 Conditions 01 04 Location(s) BLDG. 3A
Substance Name HEXYL ACETATE ISMR CAS No. 00108-84-9 DOT No. 1233 Substance No. (if available) 1227 Percent 60 (Code) State L (Code) Trade Secret ☐ (Check if Claiming)	70	Max. Daily 14 Avg. Daily 14 Days Onsite 365 (Actual Number)	Container 47 Conditions 01 04 Location(s) BLDG. 12A
Substance Name HEXYLENE GLYCOL CAS No. 00107-41-5 DOT No. — Substance No. (if available) 1003 Percent 60 (Code) State L (Code) Trade Secret ☐ (Check if Claiming)	70	Max. Daily 14 Avg. Daily 14 Days Onsite 365 (Actual Number)	Container 47 Conditions 01 04 Location(s) BLDG 12A
Substance Name HYDROGEN PEROXIDE 35% CAS No. 07722-84-1 DOT No. 2984 Substance No. (if available) 1015 Percent 54 (Code) State L (Code) Trade Secret ☐ (Check if Claiming)	68	Max. Daily 13 Avg. Daily 13 Days Onsite 365 (Actual Number)	Container 47 Conditions 01 04 Location(s) BLDG. 3A

See Instruction Booklet for codes.

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MATERIAL IN DRUMS, BAGS & CARTONS

Reporting Period: January 1 - December 31, _____

842600107

FACILITY IDENTIFICATION AND SITE LOCATION

NJEIN 61-01-222-50

Street Address FOUNDRY STREET AND AVE P

Facility Name ASHLAND CHEMICAL

City NEWARK State N.J Zip 07105

CHEMICAL DESCRIPTION	HAZARDS (Enter for all that apply.)	Inventory (Ranges) (Enter Code)	STORAGE CODES AND LOCATIONS (Enter Codes, except Location(s); supply narrative.)
Substance Name HYDROGEN PEROXIDE 50 CAS No. 07722-84-1 DOT No. 2984 Substance No. (if available) 1015 Percent 55 (Code) State L (Code) Trade Secret ☐ (Check if Claiming)	68	Max. Daily 13 Avg. Daily 13 Days Onsite 365 (Actual Number)	Container 47 Conditions 01 04 Location(s) BLDG. 3A
Substance Name ISO BUTYL ISOBUTYRATE CAS No. 00097 85-8 DOT No. 2528 Substance No. (if available) 1047 Percent 60 (Code) State L (Code) Trade Secret ☐ (Check if Claiming)	70	Max. Daily 13 Avg. Daily 13 Days Onsite 365 (Actual Number)	Container 47 Conditions 01 04 Location(s) BLDG. 12A
Substance Name ISOPROPYL ACETATE CAS No. 00108-21-4 DOT No. 1220 Substance No. (if available) 1074 Percent 60 (Code) State L (Code) Trade Secret ☐ (Check if Claiming)	70	Max. Daily 14 Avg. Daily 13 Days Onsite 365 (Actual Number)	Container 47 Conditions 01 04 Location(s) BLDG. 12A
Substance Name METHY AMYL KETONE CAS No. 00110-43-0 DOT No. 1110 Substance No. (if available) 1279 Percent 60 (Code) State L (Code) Trade Secret ☐ (Check if Claiming)	70	Max. Daily 13 Avg. Daily 13 Days Onsite 365 (Actual Number)	Container 47 Conditions 01 04 Location(s) BLDG. 12A
Substance Name MONOETHANOLAMINE CAS No. 00141-43-5 DOT No. 2491 Substance No. (if available) 0835 Percent 60 (Code) State L (Code) Trade Secret ☐ (Check if Claiming)	67 Toxic VOC	Max. Daily 13 Avg. Daily 13 Days Onsite 365 (Actual Number)	Container 47 Conditions 01 04 Location(s) BLDG. 12A
Substance Name METHYL AMYL ALCOHOL CAS No. 00108-11-2 DOT No. 2053 Substance No. (if available) 1228 Percent 60 (Code) State L (Code) Trade Secret ☐ (Check if Claiming)	70	Max. Daily 13 Avg. Daily 13 Days Onsite 365 (Actual Number)	Container 47 Conditions 01 04 Location(s) BLDG. 12A
Substance Name METHYL N-PROPYLKETONE CAS No. 00107-87-9 DOT No. 1249 Substance No. (if available) 1292 Percent 60 (Code) State L (Code) Trade Secret ☐ (Check if Claiming)	70	Max. Daily 13 Avg. Daily 13 Days Onsite 365 (Actual Number)	Container 47 Conditions 01 04 Location(s) BLDG. 12A

See Instruction Booklet for codes.

MATERIAL IN DRUMS, BAGS, & CARTONS

IMPORTANT! Read all instructions before completing.
Photocopy this sheet, if you need additional forms.
Please print or type all responses.

Reporting Period: January 1 - December 31, _____

842600108

FACILITY IDENTIFICATION AND SITE LOCATION

NJEIN 61-01-222-50 Street Address FOUNDRY STREET AND AVE P

Facility Name ASHLAND CHEMICAL City NEWARK State NJ Zip 07105

CHEMICAL DESCRIPTION	HAZARDS (Enter for all that apply.)	Inventory (Ranges) (Enter Code)	STORAGE CODES AND LOCATIONS (Enter Codes, except Location(s); supply narrative.)
Substance Name METHYLENE CHLORIDE ACR CAS No. 00075-09-2 DOT No. 1593 Substance No. (if available) 1255 Percent ___ State ___ Trade Secret ☐ (Code) (Code) (Check if Claiming)	67.___.___. ___.___ TOXIC VOC	Max. Daily 14 Avg. Daily 13 Days Onsite 365 (Actual Number)	Container 47 Conditions 01 04 Location(s) BLDG 3A
Substance Name Morpholine CAS No. 00110-91-8 DOT No. 2054 Substance No. (if available) 7315 Percent ___ State ___ Trade Secret ☐ (Code) (Code) (Check if Claiming)	70.67.___. ___.___ TOXIC VOC	Max. Daily 13 Avg. Daily 13 Days Onsite 365 (Actual Number)	Container 47 Conditions 01 04 Location(s) BLDG. 3A
Substance Name PHOSPHORIC ACID 85% TC CAS No. 07664-38-2 DOT No. 1805 Substance No. (if available) 1516 Percent 58 State ___ Trade Secret ☐ (Code) (Code) (Check if Claiming)	67.___.___. ___.___	Max. Daily 13 Avg. Daily 13 Days Onsite 365 (Actual Number)	Container 47 Conditions 01 04 Location(s) BLDG. 3A
Substance Name PHOSPHORIC ACID 85% TC CAS No. 07664-38-2 DOT No. 1805 Substance No. (if available) 1516 Percent 58 State ___ Trade Secret ☐ (Code) (Code) (Check if Claiming)	67.___.___. ___.___	Max. Daily 14 Avg. Daily 14 Days Onsite 365 (Actual Number)	Container 47 Conditions 01 04 Location(s) BLDG. 3A
Substance Name TETRA HYDROFURAN CAS No 00109-99-9 DOT No. 2056 Substance No. (if available) 182 Percent 60 State L Trade Secret ☐ (Code) (Code) (Check if Claiming)	70.67.___. ___.___ TOXIC VOC	Max. Daily 14 Avg. Daily 14 Days Onsite 365 (Actual Number)	Container 47 Conditions 01 04 Location(s) BLDG. 12A
Substance Name TEXANOL ESTER ALCH CAS No. — — — DOT No. — Substance No. (if available) — Percent 60 State L Trade Secret ☐ (Code) (Code) (Check if Claiming)	70.___.___. ___.___	Max. Daily 13 Avg. Daily 13 Days Onsite 365 (Actual Number)	Container 47 Conditions 01 04 Location(s) BLDG. 12A
Substance Name TRIETHYLENE GLYCOL CAS No. — — — DOT No. — Substance No. (if available) — Percent 60 State L Trade Secret ☐ (Code) (Code) (Check if Claiming)	70.___.___. ___.___	Max. Daily 13 Avg. Daily 13 Days Onsite 365 (Actual Number)	Container 47 Conditions 01 04 Location(s) BLDG. 12A

See Instruction Booklet for codes.

842600109

Location Key	Location Name	State	Permit Name	Permits Existing (Y or N)	Permit Type/No	Permit Number	Exp Year	Exp Month	Comment
ICSNEWANJ	Newark	NJ	NPDES	N	F01		0	0	
	Newark	NJ	SPCC	Y	F02		0	0	
	Newark	NJ	RCRA - Generator Registration	Y	F03		0	0	
	Newark	NJ	RCRA - Interim Status or Part B	N	F04		0	0	
	Newark	NJ	DOT (Dept of Transportation)		F05		0	0	
	Newark	NJ	DOT (Tank Wagon Inspections)	Y	F06	Not Applicable	1,989	10	
	Newark	NJ	DOT (Tank Wagon Inspections)	Y		Not Applicable	1,989	9	
	Newark	NJ	DOT (Tank Wagon Inspections)	Y		Not Applicable	1,989	3	
	Newark	NJ	DOT (Tank Wagon Inspections)	Y		Not Applicable	1,989	2	
	Newark	NJ	DOT (Tank Wagon Inspections)	Y		Not Applicable	1,989	3	
	Newark	NJ	DOT (Tank Wagon Inspections)	Y		Not Applicable	1,989	7	
	Newark	NJ	Occupancy	N	L01		0	0	
	Newark	NJ	Fire	Y	L02	105	1,987	9	
	Newark	NJ	Business Operating License	N	L03		0	0	
	Newark	NJ	Restricted Area Transportation	N	L04		0	0	
	Newark	NJ	Boilers/Fired Pressure Vessels	N	L05		0	0	
	Newark	NJ	Surface Water Discharge	N	S01		0	0	
	Newark	NJ	Sanitary Industrial (Sewers) Discharge	N	S02		0	0	
	Newark	NJ	Fire - Combustable Material	N	S03		0	0	
	Newark	NJ	Hazardous Waste Transportation	Y	S04	NJD060803905	1,988	9	
	Newark	NJ	Hazardous Waste Transportation	Y		JA-170 New York	1,988	12	
	Newark	NJ	Boilers	Y	S05		1,989	10	2 Boilers - Inspect every 2yrs
	Newark	NJ	Fired or Pressure Vessels	N	S06		0	0	
	Newark	NJ	FDA - Food & Drug Admin	N	S07		0	0	
	Newark	NJ	EPA - Pesticides	N	S08		0	0	
	Newark	NJ	Air - Drumming	Y	S09	060286	1,987	2	
	Newark	NJ	Air - Dryers	N	S10		0	0	
	Newark	NJ	Air - Load Racks	N	S11		0	0	

TANK INSPECTION LOG 14 Delete 29 Delete 37 Delete 26 Delete

TANK #	PRODUCT	*CAP	TANK #	PRODUCT	*CAP
11	hi sol 15	3,750	91	deicing fluid	15,000
12	hi sol 15	3,750	92	diethylene gly	14,250
13	dtl 16	3,750	102	d o p	15,000
14	n prop acetate	5,850	103	d i d p	11,250
15	isoprop acetate	5,925	104	111 trichlor	7,500
16	lacolene	5,850	107	m/s 66-Ashland	7,500
17	lacolene	6,000	108	hi sol 400	11,250
20	n proponal	3,225	109	dibutyl	7,500
21	perclene	4,875	112	m/s 66-Ashland	15,000
22	line flush	3,225	113	mineral sts 66	15,000
23	blend tank	2,250	114	isopropyl ether	15,000
24	blend tank	2,250	115	ethyl acet 99	15,000
25	blend tank	7,500	151	[redacted]	
27	m 1 b k	17,100	152		
28	1309 oil	7,500	153	[redacted]	[redacted]
30	butyl carbitol	1,800	201		
32	pm acetate	1,800	202		
34	anti freeze	11,250	204		
35	isop alcohol	11,250	206		
36	isobutly acet	3,750	209		
38	hi sol 10	7,500	214		
39	fuel oil	7,500	215	fuel oil	7,500
40	cyclohexanone	7,500	216	s k v m & p	22,500
41	dtl 10	7,500	217	reg v m & p	22,500
42	xylene	15,000	218	s k v m & p	22,500
43	hexane	7,500	142	fuel oil (DIESEL)	
44	mineral seal oil	7,500			
45	OMS	7,500			
46	butyl acetate	7,500			
47	synasol soly	11,250			
49	methylene chlor	5,775			
50	isobutyl alcohol	5,475			
51	diacetone alcoh	3,750			
52	glycol ether eb	15,000			
53	MEK	15,000			
54	kwik dri	15,000			
55	mineral spts	15,000			
56	v m & p	11,250			
57	v m & p	3,750			
58	acetone	15,000			
59	hv aromatic	15,000			
60	methanol	15,000			
61	toluene	15,000			
62	butyl alch	15,000			
63	blend tank	5,000			

Date:_____ Inspector_____

*Note: Caps. listed are maximum allowed storage per tank. Actual tank size is 25% greater.

*INSPECT TANK, PIPING, PUMP & DIKE, REPORT DEFICIENCIES IMMEDIATELY!!

842600110

15.0 NEWARK, NEW JERSEY, IC&S TANKAGE LIST

Tank #	Capacity (Gallons)	Product Stored	Chemical Name (If Different)	Hazardous By NJAC Rules
11	5,000	Hi Sol 15	Petroleum Distillate	X
12	5,000	Hi Sol 15	Petroleum Distillate	X
13	5,000	DTL-16	Blend of Petroleum Distillate	X
14	7,800	Propyl Acetate		
15	7,900	Isopropyl Acetate		
16	7,800	Lacolene	Petroleum Distillate	X
17	8,000	Lacolene	Petroleum Distillate	X
18	15,700	Cellosolve Solvent	Ethylene Glycol Ethyl Ether	X
19	15,800	Cellosolve Acetate	Ethylene Glycol Ethyl Ether Acetate	
20	4,300	Propanol		X
21	6,500	Perchloroethylene		Special Toxic VOC X
22	4,300	Primary Amyl Acetate		X
23	3,000	Blend Tank 2		X
24	3,000	Blend Tank 3		X
25	3,000	Blend Tank 4		X
26	22,900	Methyl Ethyl Ketone		
27	22,800	Methyl Isobutyl Ketone		
28	10,000	1309 Oil -	Petroleum Distillate	X
29	14,900	Kwik Dri Solvent	Petroleum Distillate	X
30	2,400	Butyl Carbitol	Diethylene Glycol Butyl Ether	
31	2,400	Empty		
32	2,400	P.M. Acetate	Propylene Glycol Methyl Ether Acetate	
33	2,500	Empty		
34	15,000	Empty Antifreeze		
35	15,000	99% Isopropanol		X
36	5,000	Isobutyl Acetate		X
37	10,000	Empty		
38	10,000	Hi Sol 10	Petroleum Distillate	X
39	10,000	Fuel Oil	Petroleum Distillate	X
40	10,000	Cyclohexanone		
41	10,000	DTL 10	Petroleum Distillate	X
42	20,000	Xylene		X
43	10,000	Hexane		X
44	10,000	Mineral Seal Oil	Petroleum Distillate	X
45	10,000	Multisolve 100 - Toluene	Petroleum Distillate	X
46	10,000	Butyl Acetate		X
47	15,000	Synasol Solvent	Ethanol	
48	5,000	Empty		
49	7,700	Methylene Chloride		X

842600111

PRODUCTS SOLD OUT OF LOCATION 040
CALENDAR YEAR THROUG NOVEMBER OF 1988 AND 1989

PRODUCT	DESCRIP	1989	1988
0540000	WASTE DISPOSAL	0	21811
0540001	SALES RECV SERV	0	1132
1228283	IPA RE ACS12X1P	0	1
1236567	SULF AC RE12X1P	0	24
2008000	CYCLOHEXANE	0	1320
2010000	HEAVY ARO HI KB	0	18472
2012000	HEAVY ARO LO KB	0	21517
2034000	HI SOL 10	0	473759
2036000	HI SOL 15	0	122497
2185000	TOLUENE	0	1081476
2187800	LACOLENE LO KB	0	144196
2195000	XYLENE	0	811730
2200068	A 2065	0	1655
2200585	AG CHEM BASE BL	0	1915
2200804	AME NEW IMPR 2	0	56523
2200782	ASHLAND 880 THI	0	165
2202328	BLEND LT 697	0	4646
2202338	BLEND LT 9015	0	3646
2206400	WS 4781	0	275
2206580	T 31 SOLVENT	0	110
2206600	SPRAY SALES 830	0	12137
2216417	BLEND 1400 A	0	1090669
2225935	BLEND 1031	0	6016
2225954	BLEND HFD	0	775
2225969	C 178	0	16195
2226008	BLEND 1400 MIS	0	7741
2226157	B 2214 AKRON	0	55
2226950	BLEND 7524	0	110
2227000	B 8385	0	220
2227926	DTL 135 (080)	0	380
2228173	DTL 105 (080)	0	9280
2238790	BLEND 7335	0	108582
2238842	CM 37 N	0	330
2238976	DTL 10	0	58590
2238996	DTR 602 (040)	0	2935
2243758	DTR 601	0	4135
2243778	DUPONT SUPER LA	0	42803
2244117	DTE 202 (040)	0	375
2244127	DTR 600(040)	0	925
2244137	DTE 201 (040)	0	1100
2247047	DTU 501	0	2375
2247057	DTU 504 (040)	0	1115
2247100	DTR 607 (080)	0	0
2252152	ENGINE DEGREASE	0	0
2265407	GEN PURP LAC TH	0	110

84260112

PRODUCTS SOLD OUT OF LOCATION 040
CALENDAR YEAR THROUG NOVEMBER OF 1988 AND 1989

PRODUCT	DESCRIP	1989	1988
2266657	HI SOL 3 NEWARK	0	1373
2269318	KS 13299 LAC TH	0	125
2269464	MARTECK THINNER	0	55
2269947	KD HS 10 BL NWK	0	3270
2308788	ST 3 B	0	5982
2309148	SILERNO INK OFF	0	165
2310617	RIBBON BUTYRATE	0	55
2311582	SEIDLER BL 202	0	605
2311692	DTE 101 (040)	0	335
2323547	SUPER LAC NEWRK	0	9323
2324392	DX 440	0	380
2324433	VL WASHING THIN	0	5414
2324482	T 00-173	0	3894
2325411	THINNER 505 A	0	110
2338190	T 216	0	4455
2373000	XA SOLVENT	0	550
2444000	HEPTANE	0	20661
2444200	HEPTANE REAGENT	0	220
2448000	HEXANE	0	359437
2488000	KEROSENE	0	35936
2494000	KWIK DRI ODORLS	0	1000
2495000	KWIK DRI 66	0	116328
2516000	MIN SPRTS NONEX	0	350824
2518000	MINERAL SPTS 66	0	1043463
2524000	MIN SEAL OIL	0	500
2560000	MIN SPRTS ODRLS	0	58642
2575000	PENTANE NORMAL	0	324
2594000	RUB SOL SHORT R	0	0
2602000	SOLTROL 170	0	86392
2614000	SOLVENT 140-66	0	67309
2640100	SOLVENT 529-66	0	2898
2640200	SOLV 529-66 LO	0	4725
2664000	TELURA 401	0	1520
2664010	TELURA 407	0	330
2698100	VMP NAP W NE	0	381890
2699000	VM&P NAPHTHA	0	394647
2699504	WHITE OIL 40 T	0	110
2699515	WHITE OIL 70 NF	0	3630
2699520	WHITE OIL 85 NF	0	110
2699540	WHITE OIL 100NF	0	1870
2699570	WHITE OIL350USP	0	1980
2699580	WHITE OIL205USP	0	1705
2699650	WHITE OIL PACKR	0	250
2700048	90 FL VM&P BUFF	0	975
2705288	BLEND NJ 600	0	1544

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PRODUCTS SOLD OUT OF LOCATION 040
CALENDAR YEAR THROUG NOVEMBER OF 1988 AND 1989

PRODUCT	DESCRIP	1989	1988
2266657	HI SOL 3 NEWARK	0	1373
2269318	KS 13299 LAC TH	0	125
2269464	MARTECK THINNER	0	55
2269947	KO HS 10 BL NWK	0	3270
2308788	ST 3 B	0	5982
2309148	SILERNO INK OFF	0	165
2310617	RIBBON BUTYRATE	0	55
2311582	SEIDLER BL 202	0	605
2311692	DTE 101 (040)	0	335
2323547	SUPER LAC NEWRK	0	9323
2324392	DX 440	0	380
2324433	VL WASHING THIN	0	5414
2324482	T 00-173	0	3894
2325411	THINNER 505 A	0	110
2338190	T 216	0	4455
2373000	XA SOLVENT	0	550
2444000	HEPTANE	0	20661
2444200	HEPTANE REAGENT	0	220
2448000	HEXANE	0	359437
2488000	KEROSENE	0	35936
2494000	KWIK DRI ODORLS	0	1000
2495000	KWIK DRI 66	0	116328
2516000	MIN SPRTS NONEX	0	350824
2518000	MINERAL SPTS 66	0	1043463
2524000	MIN SEAL OIL	0	500
2560000	MIN SPRTS ODRLS	0	58642
2575000	PENTANE NORMAL	0	324
2594000	RUB SOL SHORT R	0	0
2602000	SOLTROL 170	0	86392
2614000	SOLVENT 140-66	0	67309
2640100	SOLVENT 529-66	0	2898
2640200	SOLV 529-66 LO	0	4725
2664000	TELURA 401	0	1520
2664010	TELURA 407	0	330
2698100	VMP NAP W NE	0	381890
2699000	VM&P NAPHTHA	0	394647
2699504	WHITE OIL 40 T	0	110
2699515	WHITE OIL 70 NF	0	3630
2699520	WHITE OIL 85 NF	0	110
2699540	WHITE OIL 100NF	0	1870
2699570	WHITE OIL350USP	0	1980
2699580	WHITE OIL205USP	0	1705
2699650	WHITE OIL PACKR	0	250
2700048	90 FL VM&P BUFF	0	975
2705288	BLEND NJ 600	0	1544

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PRODUCTS SOLD OUT OF LOCATION 040
CALENDAR YEAR THROUG NOVEMBER OF 1988 AND 1989

PRODUCT	DESCRIP	1989	1988
2266657	MI SOL 3 NEWARK	0	1373
2269318	KS 13299 LAC TH	0	125
2269464	MARTECK THINNER	0	85
2269947	KO HS 10 BL NWK	0	3270
2308788	ST 3 B	0	5982
2309148	SILERNO INK OFF	0	165
2310617	RIBBON BUTYRATE	0	55
2311582	SEIDLER BL 202	0	605
2311692	DTE 101 (040)	0	335
2323547	SUPER LAC NEWRK	0	9323
2324392	DX 440	0	380
2324403	VL WASHING THIN	0	5414
2324482	T 00-173	0	3894
2325411	THINNER 505 A	0	110
2338190	T 216	0	4455
2373000	XA SOLVENT	0	550
2444000	HEPTANE	0	20661
2444200	HEPTANE REAGENT	0	220
2448000	HEXANE	0	359437
2488000	KEROSENE	0	35936
2494000	KWIK DRI ODORLS	0	1000
2495000	KWIK DRI 66	0	116328
2516000	MIN SPRTS NONEX	0	350824
2518000	MINERAL SPTS 66	0	1043463
2524000	MIN SEAL OIL	0	500
2560000	MIN SPRTS ODRLS	0	58642
2575000	PENTANE NORMAL	0	324
2594000	RUB SOL SHORT R	0	0
2602000	SOLTROL 170	0	86392
2614000	SOLVENT 140-66	0	67309
2640100	SOLVENT 529-66	0	2898
2640200	SOLV 529-66 LO	0	4725
2664000	TELURA 401	0	1520
2664010	TELURA 407	0	330
2698100	VMP NAP W NE	0	381890
2699000	VM&P NAPHTHA	0	394647
2699504	WHITE OIL 40 T	0	110
2699515	WHITE OIL 70 NF	0	3630
2699520	WHITE OIL 85 NF	0	110
2699540	WHITE OIL 100NF	0	1870
2699570	WHITE OIL350USP	0	1980
2699580	WHITE OIL205USP	0	1705
2699650	WHITE OIL PACKR	0	250
2700048	90 FL VM&P BUFF	0	975
2705288	BLEND NJ 600	0	1544

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PRODUCTS SOLD OUT OF LOCATION 040
CALENDAR YEAR THROUG NOVEMBER OF 1988 AND 1989

PRODUCT	DESCRIP	1989	1988
2705426	DELEET KWIK DRI	0	120516
2706183	YARN FINISH BLE	0	150
2706258	BLEND 4 NWK	0	4504
2706546	CERTIFIED FD	0	550
2711074	BLEND 1 D	0	1375
2730069	BLEND H 570	0	30057
2731651	BETOSIA 33-66 W	0	1015
2744838	BLND RUBBER SOL	0	31044
2744866	CERTFD IND Q D	0	1375
2760000	BLEND 1585	0	4233
2760030	APEX BLEND	0	1320
2780828	BLEND 1 A	0	3525
2780848	BLEND 2 NWK	0	12995
2780858	BLEND 5	0	12355
2781800	B 8171	0	4998
2788177	CB 57	0	16799
2809200	STEVN CLD WS515	0	165
2815077	DIR 604	0	120
2825527	DELEET KW ORI N	0	6309
2826267	DX 330 (040)	0	1995
2826568	GSE CLEANING CO	0	55
2826668	GNVL 242	0	55
2828983	J&E AUTO BL 2	0	55
2828993	J&E SLOW THINNE	0	55
2857406	M SPIRITS 75-1	0	706969
2859568	LACTANE	0	2992
2878000	MIXTURE KPM	0	1470
2878065	MIXTURE C	0	12607
2881226	PRINT ROLLER WA	0	165
2883275	PRECIP NAPHTHA	0	330
2897022	PREP SOL	0	165
2897067	RONSONOL BL 2	0	47926
2904497	PS 99	0	1210
2907144	SOLVENT 220 BLE	0	1100
2915577	SLOW PREP SOLV	0	330
2919728	TC BLEND	0	1
2974833	HI INIT VMP BL4	0	42070
2974919	VM&P SUPR PLS R	0	15239
2981093	US POLY 60-40 B	0	882
2985045	70-25-5	0	3739
3010000	ACETONE	0	1117844
3010200	ACETONE USP	0	357
3011050	ACETONE NF GRD	0	714
3011370	ACET AC GLA FCC	0	930
3011390	ACE AC GLA 6X5#	0	150

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PRODUCTS SOLD OUT OF LOCATION 040
CALENDAR YEAR THROUG NOVEMBER OF 1988 AND 1989

PRODUCT	DESCRIP	1989	1988
2705426	DELEET KWIK DRI	0	120516
2706183	YARN FINISH BLE	0	150
2706258	BLEND 4 NWK	0	4504
2706546	CERTIFIED FD.	0	550
2711074	BLEND 1 D	0	1375
2730069	BLEND H 570	0	30057
2731651	BETOSIA 33-66 W	0	1015
2744838	BLND RUBBER SOL	0	31044
2744866	CERTFD IND Q D	0	1375
2760000	BLEND 1585	0	4233
2760030	APEX BLEND	0	1320
2780828	BLEND 1 A	0	3525
2780848	BLEND 2 NWK	0	12995
2780858	BLEND 5	0	12355
2781800	B 8171	0	4998
2788177	CB 57	0	16799
2809200	STEVN CLD WS515	0	165
2815077	DIR 604	0	120
2825527	DELEET KW DRI N	0	6309
2826267	DX 330 (040)	0	1995
2826568	GSE CLEANING CO	0	55
2826668	GNVL 242	0	55
2828983	J&E AUTO BL 2	0	55
2828993	J&E SLOW THINNE	0	55
2857406	M SPIRITS 75-1	0	706969
2859568	LACTANE	0	2992
2878000	MIXTURE KPM	0	1470
2878065	MIXTURE C	0	12607
2881226	PRINT ROLLER WA	0	165
2883275	PRECIP NAPHTHA	0	330
2897022	PREP SOL	0	165
2897067	RONSONOL BL 2	0	47926
2904497	PS 99	0	1210
2907144	SOLVENT 220 BLE	0	1100
2915577	SLOW PREP SOLV	0	330
2919728	TC BLEND	0	1
2974833	HI INIT VMP BL4	0	42070
2974919	VM&P SUPR PLS R	0	15239
2981093	US POLY 60-40 B	0	882
2985045	70-25-5	0	3739
3010000	ACETONE	0	1117844
3010200	ACETONE USP	0	357
3011050	ACETONE NF GRD	0	714
3011370	ACET AC GLA FCC	0	930
3011390	ACE AC GLA 6X5#	0	150

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PRODUCTS SOLD OUT OF LOCATION 040
CALENDAR YEAR THROUG NOVEMBER OF 1988 AND 1989

PRODUCT	DESCRIP	1989	1988
3013080	ACET AC 99 TECH	0	431835
3013200	ACETIC ANHYDRID	0	10890
3013340	ASPIRIN USP 40M	0	3000
3015506	ADOGEN 461(50%)	0	390
3015508	ADIPIC ACID FG	0	200
3015523	ADOL 52 NF FLKD	0	1150
3015529	ADOGEN 58 (PWD)	0	1900
3015544	ADOGEN 583	0	3040
3015545	ADOL 42	0	5320
3015546	ADOL 66	0	1520
3015560	ADOGEN 2364	0	1900
3016960	AL SULF 100# BG	0	3200
3016980	AL SULF IRON FR	0	2100
3017550	AMM CARB TECH	0	2420
3018040	AMM CHL FCC TCP	0	1350
3019000	AMM CITR TC GRN	0	19000
3019015	AMM CIT RE 250#	0	1000
3019345	AMM HYD RE 6X4#	0	624
3019348	AMM HYD RE 370#	0	370
3019600	AMMON PERSULFAT	0	1575
3020000	AMYL ACETAT PRI	0	30382
3020250	AMIND-ME-PROPNL	0	840
3020450	DC ANTIFM A 440	0	7480
3020460	DC ANTIFM B 40#	0	40
3020500	AQUA AMMON 26'	0	145885
3020682	ASCORB AC USP G	0	3853
3024863	BENZYL ALC TECH	0	19600
3024902	SOD BICAR PWD#1	0	2500
3026100	BORIC AC TC GRN	0	100
3040000	DEICING FL146AR	0	69440
3060000	GLYCOL ETHER DB	0	66180
3060320	BUTYL BENZYL	0	500
3060500	BUTOXETHOXPRPNL	0	864
3061000	GLY ETH DB ACET	0	16200
3070000	GLYCOL ETHER EB	0	671150
3071000	GLY ETH EB ACET	0	64452
3081060	BUTYL PROPIONAT	0	0
3090100	BUTYL STEARATE	0	395
3094560	CAL CHLOR 35% L	0	44984
3095020	CAL CHL 77F100#	0	9000
3095250	CAL CHLOR 90PEL	0	486000
3095259	CA CHL 90PEL100	0	39600
3095444	CA GLUCONAT FCC	0	3200
3095500	CAL HYP GRN100#	0	5200
3095732	CAUS SOD 700#DR	0	1008641

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PRODUCTS SOLD OUT OF LOCATION 040
CALENDAR YEAR THROUG NOVEMBER OF 1988 AND 1989

PRODUCT	DESCRIP	1989	1988
3095810	MONCAL PHOS FG	0	88000
3095821	TRICAL PHOS FCC	0	17850
3095827	CAL PROPIONATE	0	300
3095973	CAO 3	0	750
3100000	GLY ETH DE ACET	0	62968
3110000	GLYCOL ETH DEHG	0	0
3110250	GLYCL ETH DE-LG	0	135880
3120010	POLYETH GLY 200	0	84880
3120020	POLYETH GLY 400	0	10815
3120030	POLYETH GLY 600	0	5610
3122000	PEG 3350 FLAKE	0	29000
3123010	PEG 8M NF/FC FL	0	50
3130000	CARB TETRACHLOR	0	14700
3140000	CAUS POT 45%LIQ	0	1071028
3140200	CAUS POT FL100#	0	400
3149907	LQ CAUS SOD25.5	0	27600
3150000	CAUS SODA LIQ50	0	3982
3150100	CAUS SOD 50%MER	0	152604
3150200	CAUS SOD FL100#	0	1100
3150220	CAUSTIC SODA FL	0	1200
3150240	C SODA BD 500#D	0	110500
3150260	C SODA FLK 400#	0	53200
3151960	CELATOM FP-4	0	25200
3160000	GLY ETH EE ACET	0	54060
3170000	GLYCOL ETHER EE	0	55614
3190000	CHLOROFORM TECH	0	1350
3191040	CIT AC USPG250#	0	7250
3191043	CIT AC AN FN250	0	42750
3191045	CIT AC AN FN50#	0	31250
3191060	CIT AC ANH 100#	0	83400
3191063	CIT AC AN F 100	0	445348
3191067	CIT AC PWD 200#	0	27000
3191072	CIT AC HYD FN G	0	500
3191200	CHROMIC AC FLK	0	400
3195930	CU GLUCONAT FCC	0	950
3200000	CYCLOHEXANONE	0	123652
3200641	AROSURF TA-100	0	700
3210000	DIBUTYL PHTHAL	0	248261
3210300	DIBUTYL MALEATE	0	34390
3220000	DIETHANOLAMIN99	0	108141
3228000	DIBASIC ESTER 1	0	29825
3228100	DIBASIC ESTER 2	0	14550
3230000	DIISOBUT KETONE	0	740
3235000	DIISODECYL PHTH	0	5376
3255000	DIACETONE ALCHL	0	102561

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PRODUCTS SOLD OUT OF LOCATION 040
CALENDAR YEAR THROUG NOVEMBER OF 1988 AND 1989

PRODUCT	DESCRIP	1989	1988
3255120	DICA PHOS AN FG	0	9600
3256000	DIOXANE-1,4	0	1419
3261000	DIME ETHANOLAMN	0	1224
3265000	DIETHYLAMINE	0	318
3270000	DIETHLEN GLYCOL	0	102740
3272000	DIETHYL PHTHAL	0	218160
3275100	DIISONON PHTHAL	0	1800
3275310	DIIPRNLAMN 90LF	0	4500
3275320	DIIPRNLAMN 85LF	0	415739
3275700	DIMETH ACETAMID	0	323467
3276000	DIMETH-FORMAMID	0	22730
3276500	DIMETHYL PHTHAL	0	4770
3291115	DIPOT PHOS FGP	0	9700
3298000	DIPROP GLY FRGR	0	450138
3300000	DIPROPLN GLYCOL	0	16920
3310000	DIOCTYL PHTHAL	0	454464
3310896	DC 344 FLUID	0	1410
3310938	DC Q1-2530 45#	0	1000
3310944	DC 210H FL 40#	0	840
3310952	DC 345 FLUID	0	12940
3310960	DC 808 RES 450#	0	1800
3310974	DC 347 EMUL 440	0	132000
3310978	DC 1-2531 RC375	0	1875
3310979	DC 1-2531 RC35#	0	35
3310980	DC 1500 ANTF40#	0	40
3310984	DC 1520US AF40#	0	120
3310985	DC 1520 AF 440#	0	2200
3310988	DC HV490 EMUL40	0	240
3310990	DC HV490 EM 440	0	440
3311001	DC 200F 350 440	0	44440
3311003	DC ANF FG10 440	0	440
3311004	DC ANTF 8 EM440	0	9240
3311011	DC ANTF 1430 40	0	240
3311013	DC 200F 100V440	0	2200
3311018	DC 200FL 1M 40#	0	400
3311020	DC ANTF FG10 40	0	80
3311021	DC 200FL 350 40	0	640
3311026	DC 200FL 50V40#	0	2360
3311029	DC ANTF AF 40#P	0	280
3311032	DC 11PNT AD37.5	0	70
3311036	DC ANTF A CP40#	0	80
3311038	DC 200 12.5M440	0	1320
3311044	DC 11 PNT AD375	0	375
3311045	DC 200FL 60M 40	0	200
3311046	DC ANT 1410 441	0	882

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PRODUCTS SOLD OUT OF LOCATION 040
CALENDAR YEAR THROUG NOVEMBER OF 1988 AND 1989

PRODUCT	DESCRIP	1989	1988
3311048	DC ANTF H10 40#	0	80
3311049	DC 36 EMULS 40#	0	200
3311052	DC 200FL 100V40	0	1400
3311055	DC 24 EMULS 40#	0	320
3311059	DC 200F 50V 440	0	33000
3311061	DC 200F 1MV 440	0	1760
3311065	DC 200FL 200V40	0	80
3311067	DC 200FL 20V40#	0	160
3311082	DC 805 RES 450#	0	450
3311084	DC 200FL 30M 40	0	40
3311085	DC 200FL 10V 37	0	227
3311089	DC 200FL 5V37.5	0	151
3311093	DC 7 PNT ADD30#	0	40
3311096	DC ANTF 1410 40	0	360
3311109	DC 200F 12.5M40	0	120
3311111	DC ANTF 1400 40	0	40
3311113	DC ANT 1430 440	0	880
3311116	DC ANTF A FG 45	0	90
3311125	DC 7 REL PST 8#	0	32
3311135	DC 56 PNT AD 40	0	40
3311142	DC 190 SURFACTN	0	160
3311146	DC 200FL ICS 30	0	60
3311152	DC 200FL 2CS35#	0	35
3311164	DC 200FL 100M40	0	40
3311168	DC 200FL 1.5 35	0	35
3311188	DC 244 FLUID	0	4730
3311192	DC PRINT SLN 62	0	173480
3311196	DC 59 ADDITIVE	0	360
3311203	DC ANTF AF 440#	0	4840
3311214	DC 14 PNT ADD33	0	363
3311232	DC 200F 350V FG	0	600
3311238	DC 57 PNT AD40#	0	880
3311240	DC 193 SRFT 40#	0	160
3311248	DC FS 1265 1M50	0	50
3311254	DC 1107 FL 440#	0	6600
3311255	DC 1107 FL 40#	0	360
3311272	DC 225 CG SIL F	0	440
3311276	DC 556 CG SIL F	0	520
3311282	DC 29 ADDITIVE	0	120
3311284	DC PRINT SLN 63	0	120800
3320435	EMID 6515	0	410
3320532	EPON CURE C111H	0	1350
3320594	EPON CUR AG V50	0	420
3320600	EPONOL 53-BH-35	0	8400
3320616	EPON RES 1004 F	0	49300

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PRODUCTS SOLD OUT OF LOCATION 040
CALENDAR YEAR THROUG NOVEMBER OF 1988 AND 1989

PRODUCT	DESCRIP	1989	1988
3320622	EPON CURE P-108	0	3000
3320632	EPON RES 1007 F	0	59350
3320636	EPON RES 1001 F	0	34900
3320640	EPON RESIN 871	0	8500
3320650	EPON RESIN 815	0	5000
3320653	EPON RESIN 8132	0	2500
3320655	EPON RESIN 828	0	141540
3320657	EPON RESIN 834	0	2000
3320660	EPON 1001-X-75	0	5700
3320665	EPON 1001-CX-75	0	1000
3320669	EPON 1007-CT-55	0	8550
3320674	EPON CURE C-111	0	1350
3320676	EPON RES 1009 F	0	25400
3320679	EPON CURE AGT U	0	1425
3320680	EPON 1001-B-80	0	4275
3320682	EPON CURE C-112	0	1350
3320683	EPON CUR AGT H3	0	2640
3320684	EPON CUR AGT H2	0	1110
3320694	EPONOL 53-L-32	0	2500
3322110	ERYTHORB AC FCC	0	39100
3330000	ETH ACET 85-88%	0	1224
3345000	ETHYL ACETAT99%	0	877442
3348020	ETHLNDIAMIN 99%	0	2478
3353000	ETHYLBENZENE 99	0	392
3361054	ETH PROPIONATE	0	810
3365000	ETHYLEN DICHLOR	0	2268
3370000	ETHYLENE GLYCOL	0	546706
3370100	ETH GLY LO-COND	0	515
3375000	ESTER SOLV EEP	0	15660
3380000	ETHYLHEXANOL-2	0	18432
3380600	ETH-HEXOIC AC-2	0	91708
3381000	ETHHEXYL ACET-2	0	1600
3385890	FER AMMON CITRT	0	200
3385913	FERROUS SULFATE	0	2000
3386304	BLEND 1249	0	11310
3395300	BUTYL OCT PHTHL	0	460
3395982	FER AN CITR GRN	0	300
3398200	TRICRES PHOSPHT	0	506
3400010	FORMALD 37% 6-8	0	9000
3400020	FORMALD 37%9-12	0	5880
3400318	FREON TE 690#	0	690
3400320	FREON TF 60#	0	6420
3400322	FREON TF 690#	0	53820
3400325	FREON TMC 55#	0	550
3400327	FREON TMC 630#	0	13230

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PRODUCTS SOLD OUT OF LOCATION 040
CALENDAR YEAR THROUG NOVEMBER OF 1988 AND 1989

PRODUCT	DESCRIP	1989	1988
3400328	FREON TP35 525#	0	1050
3400329	FREON TP 35 45#	0	315
3400335	FREON TA 55#	0	550
3400343	FREON TDA35 690	0	690
3400371	FREON TMS 650#	0	40950
3400372	FREON TMS 55#	0	1430
3400377	FREON TDFC 60#P	0	60
3400397	FREON TP10 630#	0	630
3400400	FUMAR AC NF GR	0	50
3400405	FUMAR AC NF PWD	0	5050
3404000	GLYCERIN 99.5%T	0	96022
3405100	GLYC 99.5%USP S	0	82080
3405124	GLYC M-STEAR PG	0	400
3405170	GLYCERIN 96% TC	0	1140
3405200	GLYCER 96%USP S	0	57000
3405900	GLYCOL ETHER EP	0	95578
3405950	GLYCOL ETHER TB	0	455
3414000	GLUCONIC AC 50%	0	555
3414500	GLU-D-LACTON250	0	3250
3416604	GREASE LITH 2	0	2000
3455000	CHELATE LIQ 100	0	11
3455405	CHELATE LIQ 120	0	11
3455680	HEPTYL ACETATE	0	786
3458100	SOD HEXMETPH PW	0	4000
3459700	HEXYL ACET 1SMR	0	31345
3460000	HEXYLENE GLYCOL	0	182438
3471115	HYDCL AC RE 6X6	0	2952
3471118	HYDCL AC 500N/R	0	500
3471246	HYDFL AC RE4X10	0	80
3471256	HP COATING THIN	0	426
3471640	STEAR AC TR PRS	0	2350
3473010	HYDROG PEROX 35	0	970
3473011	HYD PEROX 35%CG	0	4500
3473030	HYDROG PEROX 50	0	500
3473044	HYD PEROX 35%FG	0	12500
3473060	HYD TALO FA FLK	0	7350
3473090	H-PEROX 50% 500	0	500
3488040	IRCOGEL 900	0	6908
3488047	IRCOGEL 903	0	3694
3488050	IRCOGEL 904	0	880
3488055	IRCOGEL 905	0	1429
3495000	ISOBUTANOL	0	109339
3499000	ISOBUT ISOBUTRT	0	34510
3500000	ISOPROPYL ACET	0	217008
3502000	ISOPROPYL ETHER	0	523275

842600123

PRODUCTS SOLD OUT OF LOCATION 040
CALENDAR YEAR THROUG NOVEMBER OF 1988 AND 1989

PRODUCT	DESCRIP	1989	1988
3504000	ISOPROPANOL 91%	0	3330
3504700	ISOPRPYL ALC 70	0	1540
3504950	ISOPROPANOL 95%	0	720
3507000	ISOPROPANOL 99%	0	1512210
3507100	IPA 99% USP GRD	0	142355
3510000	ISOPHORONE	0	31020
3513990	LANOLIN USP COS	0	641
3514805	LIME HYD 50# BG	0	90800
3515582	SOD HYDSULFIT-Z	0	5000
3522505	METH AMYL KETON	0	30040
3522506	MALEIC ANHY BRQ	0	145200
3522509	MALIC AC FN GRN	0	8250
3530000	MONOETHANOLAMIN	0	210209
3540000	M E K	0	1830046
3546010	METHANOL RE360#	0	720
3570030	ME CHLORFORMATE	0	266020
3587100	METH N-PROP KET	0	17020
3590000	METHLN CHLOR IG	0	351980
3590128	MEK BLEND 3	0	1004
3590160	METH CHLOR FCC	0	8288
3590200	METHLEN CHL AER	0	274620
3600000	GLYCOL ETHER DM	0	43108
3610000	GLYCOL ETHER EM	0	28050
3615000	M I A K	0	15293
3620000	M I B K	0	416252
3630000	MONOCHLOROBENZE	0	2000
3632210	MSG FCC FNXT100	0	26160
3632215	MSG FCC XTL 50#	0	1800
3632300	MONOSOD PHOS FG	0	67100
3635000	MORPHOLINE	0	159600
3635700	ME PYRROLIDONE	0	11
3639200	MURIATIC AC 20'	0	235515
3639210	MUR AC 20' INHIB	0	14175
3642430	NAPHTH CHIP/FLK	0	1200
3656980	NITR AC RE 6X7#	0	84
3657320	NITRIC ACID 42'	0	23320
3657550	NITRO-2-PROPANE	0	8550
3670100	BUTYL ACET U G	0	434119
3680000	BUTANOL NORMAL	0	1089055
3690000	PROPYL ACET NOR	0	81314
3700000	PROPANOL NORMAL	0	59648
3735000	OXALIC AC DIHYD	0	100
3745000	PALATINOL N	0	53070
3750000	PERCHLORETHYLEN	0	753380
3785020	PHOS AC 75% TCH	0	24700

842600124

PRODUCTS SOLD OUT OF LOCATION 040
CALENDAR YEAR THROUG NOVEMBER OF 1988 AND 1989

PRODUCT	DESCRIP	1989	1988
3785023	PHOS AC 75% FG	0	83860
3785040	PHOS AC 85% TC	0	58070
3785043	PHOS AC 85% FG	0	20400
3797476	POLYDEXTROSE FG	0	200
3797480	POLYDEXTROSE K	0	300
3826030	POLY-G WS-5100	0	67050
3854980	POLYPROP GL2000	0	9200
3881680	POTAS ACET USP	0	1400
3881686	POT BENZ FG GRN	0	700
3884238	POT CITR USP200	0	22600
3884240	POT CITR GN100#	0	9600
3884248	POT GLUCON USP	0	800
3884380	MONPOT PHOS FCC	0	100
3885100	POT SORB NF GRN	0	45200
3885120	POT SORB NF PWD	0	8300
3888000	PRIMRY AMYL ALC	0	40125
3890600	PROPIONIC AC TE	0	446
3890640	PROPYLEN CARBNT	0	1620
3900000	PROPLEN GLY TCH	0	1163326
3903000	PROPLEN GLY USP	0	737190
3903010	PROPLN GLY INFF	0	92300
3904000	GLYCOL ETHER PP	0	177795
3904500	DOWANOL PPH	0	12150
3905000	PROPYLENE OXIDE	0	19300
3919174	SILANE Z-6020	0	468
3919182	SIL Z-6040 441#	0	882
3919186	SILANE Z-6070	0	1280
3919920	SOD ACET AN USP	0	700
3920000	BUTYL ALCH SEC	0	14840
3920100	SODA ASH DENSE	0	300
3920200	SODA ASH LT100#	0	89400
3920201	SODA ASH LT 50#	0	200000
3920370	SOD BENZ NF LD	0	4700
3920380	SOD BENZOAT 33%	0	7308
3920400	SOD BENZ NFP100	0	7900
3920402	SOD BENZ NFP50#	0	400
3920408	SOD BEN DNS 50#	0	35600
3920410	SOD BEN DN100#D	0	17500
3920490	SOD BISULF GLOB	0	400
3920500	SOD BISULFIT100	0	400
3920702	SOD CHLOR USP G	0	0
3921000	SOD BICARB PWD1	0	30500
3921110	SOD FLUOR CR/GN	0	700
3921200	SOD GLUC TC FNG	0	2900
3921210	SOD GLUCNAT FCC	0	1400

84260125

PRODUCTS SOLD OUT OF LOCATION 040
CALENDAR YEAR THROUG NOVEMBER OF 1988 AND 1989

PRODUCT	DESCRIP	1989	1988
3955070	TEA 97% HI COL	0	114325
3955100	TRIETHANOLAM 99	0	99151
3955130	TRIETHNMIN 99NF	0	5100
3958050	TAR AC NF FINE	0	100
3960600	TERGITOL NP-6	0	12530
3961000	TERGITOL NP-10	0	105200
3965100	TERGITOL NP-9	0	113210
3965300	TERGITOL 15-S-9	0	920
3965316	TERGITOL 24-L92	0	2736
3965342	TERGITOL 26-L-5	0	4360
3965400	TETRAHYDROFURAN	0	104400
3965414	TKPP TECH PWD	0	3800
3965416	TETPOT PYRO FGG	0	5300
3965430	TETSOD PYRO FGP	0	3000
3966500	TEXANOL EST ALC	0	33665
3966510	TEXNL ISOBUTYRT	0	435
3967446	TOLUENE RE 390#	0	390
3968260	TRICAL PHOS FGG	0	3500
3968500	TRI-ETHAN D C/V	0	993607
3968530	TRICL-ETHAN AER	0	211000
3970000	TRICLOR DG C/V	0	3300
3980000	TRIETHYLENE GLY	0	19836
3982000	TRIPROP GLYCOL	0	26320
3987000	TRIETHYLAMINE	0	1324
3987030	TRIETHLNTETRAMN	0	13590
3987523	TRIPOT PHOS ANH	0	2000
3987535	TRISOD PHOS GRN	0	200
3989160	GLYCOL ETHR DPM	0	80640
3989300	GLYCOL ETHER PM	0	138759
3989320	GLY ETH PM ACET	0	223975
3990500	UREA PRL XTL SH	0	72000
3990930	VARSFT 475(75%)	0	42500
3990946	VARONIC LI-420	0	920
3990982	VARSULF SBFA 30	0	450
3991002	VARIQUAT K300	0	780
3991062	VAROX 1770	0	400
3991149	EDTA NA2 FCC	0	100
3991788	VELTOL PLUS 10K	0	1317
3991790	VELTOL PLUS 2KG	0	83
3991792	VELTOL PLUS 25K	0	440
3991794	VELTOL PWD 25KG	0	110
3991796	VELTOL PWD 2KG	0	33
3991798	VELTOL PWD 10KG	0	590
3993900	ZINC CYANIDE	0	1
3993970	ZN GLUCON FG PD	0	100

842600127

PRODUCTS SOLD OUT OF LOCATION 040
CALENDAR YEAR THROUG NOVEMBER OF 1988 AND 1989

PRODUCT	DESCRIP	1989	1988
3994750	ZINC PEROXIDE	0	2000
5630700	ETH GLY RECYCLD	0	11940
5689691	111 TRI RCY INH	0	62780
7010255	ACETONE RE4X1GP	0	36
7015683	ADCOOL 2 DYED	0	1375
7015690	ADKLEEN	0	440
7015693	ADSOL 2	0	990
7018000	DEICE FL PM5178	0	13823
7018200	DEICE FL PM5234	0	8981
7018500	DEICE FL 146AR	0	5671
7020220	ALC RE DENAT190	0	8
7020840	AMBITROL CN	0	1320
7021000	ANTFR PERM BULK	0	5225
7030699	ETHANOL SI 4079	0	216
7030798	ETHANOL SI 4083	0	972
7030799	ETHANOL SI 4084	0	1898
7030800	ETHANOL SI 4085	0	486
7129000	DOWTHERM SR-1	0	55
7224000	PROP ALC PM6118	0	540
7280155	IPA RE ACS 4X1G	0	8
7340120	ME CHL UV SPEC	0	8
7350000	METHANOL	0	81099
7419200	SOD HYPOCH 12.5	0	440
7419245	SOD HYPO 12%55G	0	895
7430000	ETHANOL PR 3224	0	33541
7430100	ETHANOL PR 41	0	497
7430500	ETHANOL PR 509	0	23096
7432110	TCT AUTO LIFE	0	64
7432123	TECTYL 121 B	0	509
7432281	TECTYL 282 CONC	0	275
7432284	TECTYL 283S17MF	0	110
7432406	TECTYL 400 C-WO	0	16
7432440	TCT 185GW MD OR	0	0
7432482	TECTYL 481 H	0	55
7432502	TECTYL 502 C	0	32
7432506	TECTYL 506	0	236
7432511	TECTYL 511 M	0	291
7432513	TECTYL 517	0	1721
7432517	TECTYL 518	0	16
7432520	TECTYL 603	0	110
7432802	TECTYL 802 A	0	126
7432810	TECTYL 810	0	55
7432846	TECTYL 846	0	706
7432894	TECTYL 894	0	16
7432898	TECTYL 900	0	32

842600128

PRODUCTS SOLD OUT OF LOCATION 040
CALENDAR YEAR THROUG NOVEMBER OF 1988 AND 1989

PRODUCT	DESCRIP	1989	1988
7451000	ETOH CDA 19 190	0	972
7467000	UCARTHERM IIT FL	0	1595
7525414	AME RETDR 60-40	0	5224
7526705	ACETONE WATER M	0	73341
7536028	B 343 CHEM	0	973
7536145	DTL 151 (080)	0	2230
7541014	6-75-206	0	990
7542107	DTL 876 (040)	0	31351
7552600	C 152	0	110
7598196	SB 1246	0	440
7598261	BEMIS 107 FAST	0	275
7598568	BLEND Z	0	24926
7641068	BLEND 608	0	165
7642736	DTL 16	0	63113
7644076	CEMENTEX BLEND	0	1540
7650600	E SOLVENT	0	16995
7650721	BM 494	0	1045
7650813	CS 445	0	1907
7651110	CB 34	0	220
7653014	FORD EDISON BLE	0	1512
7685037	DELUXE BW 0587	0	2200
7726523	J&E FAST THINNE	0	55
7727648	JOYCE BLEND	0	1320
7750633	L 8198 BLEND	0	220
7811547	VOUGHT LACQUER	0	165
7815400	COX LACQUER THI	0	220
7828979	O'BRIEN 1	0	55
7829139	MA 137	0	7399
7834530	MIL T 81772	0	2420
7841217	NITROCELLULOSE	0	12400
7875117	RONNIE BLEND	0	13640
7875724	SEIDLER BLEND	0	275
7876074	STRIP FORMULA A	0	550
7878259	B 8673	0	495
7922400	TYPE WASH II	0	275
7937477	WATER METHANOL	0	1685
7937510	423 WASH THINNE	0	1815
7940881	6-75-432	0	825
7941488	6-75-596	0	7357
7996976	24 SOLVENT	0	220

TOTAL P.15

842600129

DONALD TUCKER
CHAIRMAN

RAYMOND LUCHKO
VICE CHAIRMAN

ROBERT M. BURKE, JR.
THOMAS J. CIFELLI
CHARLES A. LAGOS
FRANK ORECHIO
COMMISSIONERS

Passaic Valley
Sewerage Commissioners

600 WILSON AVENUE
NEWARK, N.J. 07105
(201) 344-1800
Fax: (201) 344-2951

CARMINE T. PERRAPATO
EXECUTIVE DIRECTOR

ROBERT J. DAVENPORT
DEPUTY EXECUTIVE DIRECTOR

GABRIEL M. AMBROSIO
CHIEF COUNSEL

NORMAN E. DARMSTATTER
CLERK

August 10, 1990

Ashland Chemical Co.
221 Foundry Street
Newark, New Jersey 07105
Attn: Mr. Oliver

RE: NOTICE OF VIOLATION
PERMIT NO: 20402793
VIOLATION DATE: 07-17-90
SECTION VIOLATED: APPENDIX B

Dear Mr. Oliver:

You are put on notice that your company is in violation of Appendix B, Pretreatment Limitation 2 of the Passaic Valley Sewerage Commissioners Rules and Regulations. During an inspection visit your LEL monitoring equipment was not operating in conformance with its intended use. The meter was not being maintained. The flame was out with the warning light blinking; the tape which was signed and dated only at installation was allowed to run-out, and no responsible person was available to answer questions. As a result, Ashland Chemical did not comply with the Sewer Connection Permit which requires continuous monitoring of the facilities outfall.

You are hereby directed to respond to this letter in writing within 10 days stating how you plan to keep your LEL recorder operating properly in the future. In addition, you will need to provide the name of an alternate contact in the event you are not available at the time of our inspection. Failure to do so could result in fines and other penalties. If you have any questions concerning this matter, please call Mario Graglia at (201) 817-5724.

Very truly yours,
PASSAIC VALLEY SEWERAGE COMMISSIONERS

Carmine T. Perrapato
Executive Director

CTP/sl

cc: Robert Davenport, Deputy Executive Director
Frank D'Ascensio
City of Newark

842600130

DONALD TUCKER
CHAIRMAN
RAYMOND LUCIKO
VICE CHAIRMAN
ROBERT M. BU[illegible]
THOMAS J. CIFELLI
CHARLES A. LAGOS
FRANK ORECHIO
COMMISSIONERS

Passaic Valley
Sewerage Commissioners

600 WILSON AVENUE
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ROBERT J. DAVENPORT
DEPUTY EXECUTIVE DIRECTOR

GABRIEL M. AMBROSIO
CHIEF COUNSEL

NORMAN E. DARMSTATTER
CLERK

CERTIFIED [illegible]
RETURN RECEIPT REQUES

July 30, 1990

Ashland Chemical Co.
221 Foundry Street
Newark, NJ 07105
Attn: Robert Oliver

D HOWARD GRAHAM

RE: NOTICE OF VIOLATION
PERMIT #: 20403793
VIOLATION DATE: 7/21/90
SECTION VIOLATED: 316.1

Dear Mr. Oliver,

You are put on notice that as of 7/21/90 your company was in violation of 316.1 of the Passaic Valley Sewerage Commissioners Rules & Regulations for failure to submit a Quarterly Self Monitoring Report (MR2) on time. As of July 23, 1990 your report had not been received. You are hereby directed to submit the required report immediately to PVSC, attention Industrial Department.

You are also put on notice that substantial fines will be assessed until the report is received. If you transmit the report to PVSC via facsimile this will be acceptable as a submission only if the original document is received by PVSC within 4 days of receipt of the facsimile.

FAX'D 8/3/90 9:30AM

SEE COPY OF 'FAX-LOG'
DO NOT FAX 8/2 BECAUSE PVSC "SHUTS-OFF" FAX @ 4:00PM.

Very truly yours
PASSAIC VALLEY SEWERAGE COMMISSIONERS

Carmin T. Perrapato
Executive Director

CTP/ld

cc: Robert Davenport, Deputy Executive Director
Carmin Della Pia, Operations Coordinator

Need letter to PVSC authorizing Howard Graham as Ashland's agent to submit monitoring

842600131

JUL 1 6 1988

MEMORANDUM

TO: R. L. Bever

DATE: July 15, 1988

FROM: A. A. Hendrickson

CC: T. A. Goodwin
J. Parzych
R. S. Gose
RMA/WLT/GWH
E-7940

SUBJECT: Removal of Newark's Neutralization Unit

The NJDEP, Division of Water Resources, inquired about the status of the neutralization unit at Newark. Since it had not been used since August 1987 and there were no future plans to reuse the unit, we advised them in writing on January 14, 1988 that we would either remove the tank or fill it in this spring or summer. Tag Goodwin asked me to get an extension from NJDEP to include this removal in the plant demolition. In discussing this with Chris Marraro, the attorney working on the ECRA filing, he advised me to request this in writing from the DEP. He also said we would discuss this with the DEP during our first ECRA meeting.

Would you review, comment and approve the attached letter to the NJDEP.

AAH:dli
Attachment

OK
Roy Le Bever
7/18/88

842600132

Ashland

Ashland Chemical Company
DIVISION OF ASHLAND OIL, INC.

P.O. BOX 2219, COLUMBUS, OHIO 43216 • (614) 889-3333

ENGINEERING DEPARTMENT
W.L. Tordoff
Director of Engineering

July 15, 1988

Mr. Valentine Kouame
Division of Water Resources
New Jersey Department of
Environmental Protection
P.O. Box CN029
Trenton, NJ 08625

Dear Mr. Kouame:

By letter on January 14, 1988, I informed you that the neutralization unit at our Newark, New Jersey, facility would be removed or filled with sand this spring or summer. Ashland has recently filed an ECRA General Information Statement and Site Evaluation Submission as a result of potential future condemnation of a portion of the property by the New Jersey Turnpike Authority in connection with the Turnpike widening project. Plans call for the remaining portion of the plant to be demolished and a completely new state-of-the-art plant built to replace the old plant.

We are requesting permission from you to include the removal of this neutralization tank with the demolition of the plant. Ashland expects to have an approved ECRA cleanup plan in 9 months and in approximately 1 month the phased construction schedule will be approved by the New Jersey DEP. When this phased construction schedule is approved, Ashland will begin the rebuild of the Newark plant. The first phase of this rebuild is demolition of the old plant which includes removal of the neutralization unit.

Please advise us if an extension for removal of this unit can be obtained.

Yours very truly,

Arlene A. Hendrickson
Environmental Engineer

AAH:dli

bc: C. Marraro/T. A. Goodwin/J. Parzych/R. S. Gose/R. L. Bever
RMA/WLT/GWH/E-7940

Ashland's Commitment
to Quality and Productivity

842600133

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TO: R. L. Bever

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Would you review, comment and approve the attached letter to the NJDEP.

Arlene

AAH:dli
Attachment

JUL 20 1988

Kay

I have changed the 2nd paragraph of this letter at Chris's suggestion. Please review and return to me.

842600134

Ashland

Ashland Chemical Company
DIVISION OF ASHLAND OIL, INC.

P.O. BOX 2219, COLUMBUS, OHIO 43216 • (614) 889-3333

ENGINEERING DEPARTMENT
W.L. Tordoff
Director of Engineering

July 18, 1988

Mr. Valentine Kouame
Division of Water Resources
New Jersey Department of
Environmental Protection
P.O. Box CN029
Trenton, NJ 08625

Dear Mr. Kouame:

By letter on January 14, 1988, I informed you that the neutralization unit at our Newark, New Jersey, facility would be removed or filled with sand this spring or summer. Ashland has recently filed an ECRA General Information Statement and Site Evaluation Submission as a result of potential future condemnation of a portion of the property by the New Jersey Turnpike Authority in connection with the Turnpike widening project. Plans call for the remaining portion of the plant to be demolished and a completely new state-of-the-art plant built to replace the old plant.

We are requesting permission from you to include the removal of this neutralization tank with the demolition of the plant. Ashland expects to have an approved ECRA cleanup plan in within a year. When this phased construction schedule is approved under RCRA, Ashland will begin the rebuild of the Newark plant which includes removal of the neutralization unit.

Please advise us if an extension for removal of this unit can be obtained.

Yours very truly,

Arlene A. Hendrickson
Environmental Engineer

AAH:dli

bc: C. Marraro/T. A. Goodwin/J. Parzych/R. S. Gose/R. L. Bever
RMA/WLT/GWH/E-7940

Ashland's Commitment
to Quality and Productivity

842600135

Ashland

Ashland Chemical Company
DIVISION OF ASHLAND OIL, INC.

P.O. BOX 2219, COLUMBUS, OHIO 43216 • (614) 889-3333

ENGINEERING DEPARTMENT
W.L. Tordoff
Director of Engineering

July 18, 1988

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Division of Water Resources
New Jersey Department of
Environmental Protection
P.O. Box CN029
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Yours very truly,

Arlene A. Hendrickson
Environmental Engineer

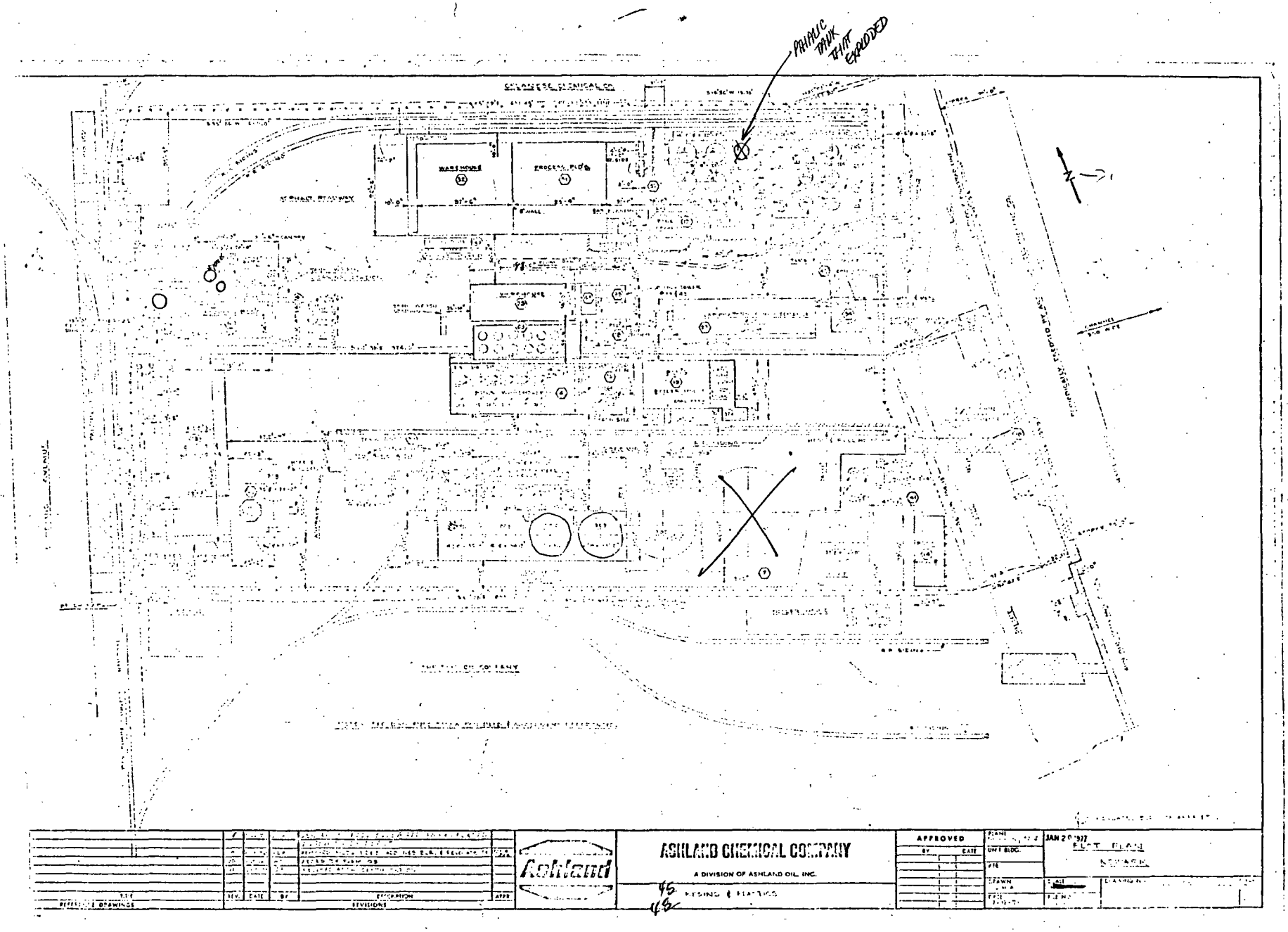
AAH:dli

bc: C. Marraro/T. A. Goodwin/J. Parzych/R. S. Gose/R. L. Bever
RMA/WLT/GWH/E-7940

Ashland's Commitment
to Quality and Productivity

842600136

842600137


PHENOLIC TANK THAT EXPLODED
WAREHOUSE
PROCESS PLANT
ASHLAND CHEMICAL COMPANY
A DIVISION OF ASHLAND OIL, INC.
Ashland
APPROVED
JAN 20 1977
PLOT PLAN
NEWARK

842600138

VOLUME 1

ECRA SAMPLING FINDINGS AND PROPOSED REMEDIAL ACTION

PREPARED FOR

ASHLAND CHEMICAL COMPANY
INDUSTRIAL CHEMICALS & SOLVENTS DIVISION
221 FOUNDRY STREET
NEWARK, NEW JERSEY 07105
ID NO. NJD 060 803 905
ECRA CASE NO. 88695

MAY 19, 1989

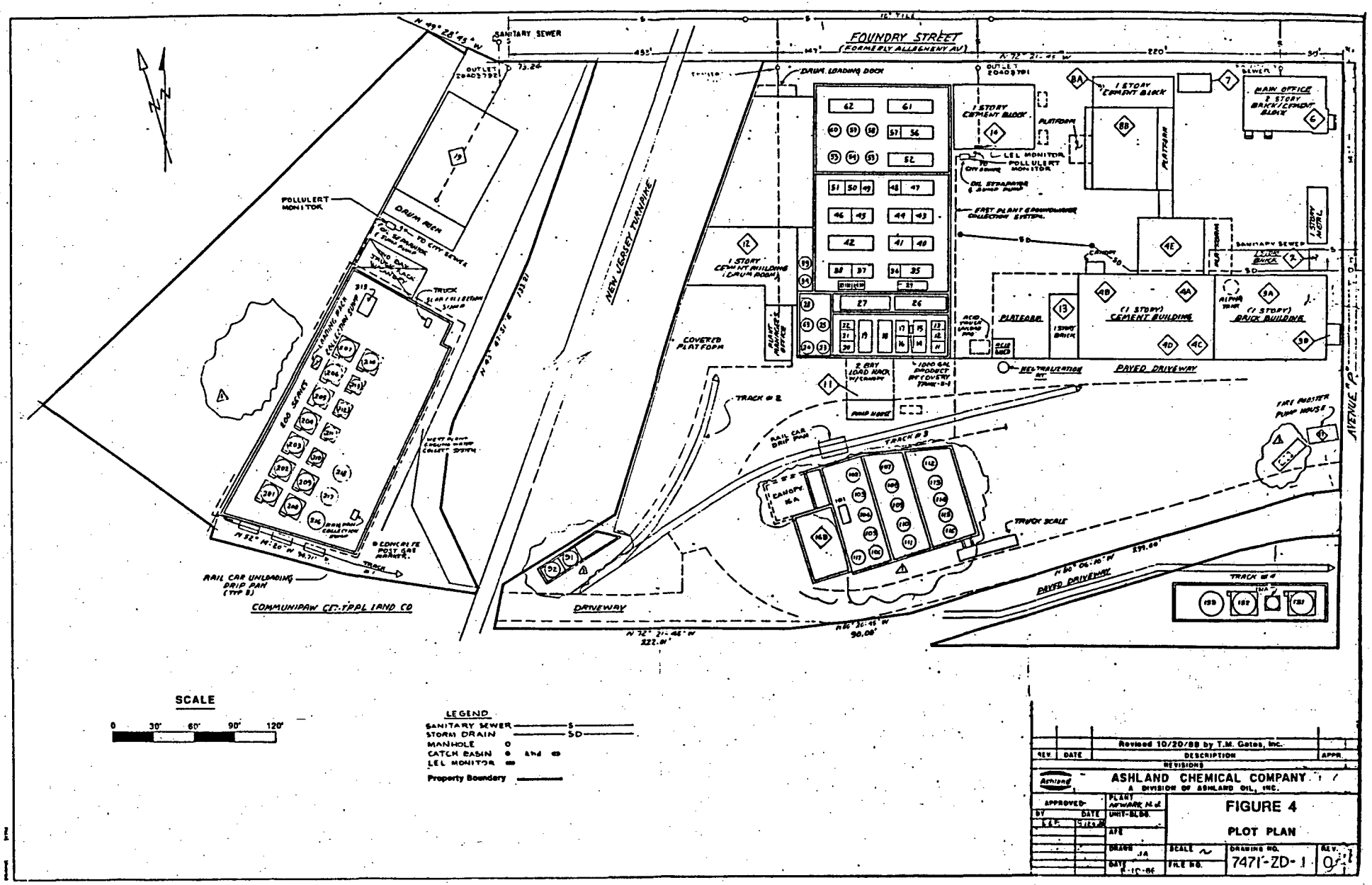
Environmental and
Applied Earth Science
Consultants

T. M. GATES, INC.
787 ROUND BOTTOM ROAD
MILFORD, OHIO 45150
(513) 248-1025

Newark, NJ
E-7704

DSO
05/19/89

842600139


FOUNDRY STREET
(FORMERLY ALLEGHENY AV)
SANITARY SEWER
DRUM LOADING DOCK
MAIN OFFICE
2 STORY BRICK/CEMENT BLOCK
1 STORY CEMENT BLOCK
1 STORY CEMENT BUILDING
(1 STORY) CEMENT BUILDING
(1 STORY) BRICK BUILDING
PLATFORM
LEL MONITOR
POLLULERT MONITOR
EAST PLANT GROUNDWATER COLLECTION SYSTEM
COVERED PLATFORM
PAVED DRIVEWAY
TRACK # 2
TRACK # 3
TRACK # 4
RAIL CAR DRIP PAN
CANOPY
TRUCK SCALE
FIRE MONITOR PUMP HOUSE
NEW JERSEY TURNPIKE
AVENUE 'P'
DRUM RACK
LOADING RACK
COLLECTION SUMP
RAIL CAR UNLOADING DRIP PAN (TYP 8)
COMMUNIPAW CEMETERY LAND CO
DRIVEWAY
N 72° 21' 46" W 322.8'
N 86° 36' 45" W 90.00'
N 72° 21' 46" W 220'
N 80° 06' 10" W 291.66'
N 52° 41' 20" W 96.71'
N 49° 28' 45" W
N 43° 41' 51" E 133.21'
73.24'
SCALE
0 30' 60' 90' 120'
LEGEND
SANITARY SEWER —S—
STORM DRAIN —SD—
MANHOLE
CATCH BASIN
LEL MONITOR
Property Boundary
REVISIONS
REV. DATE DESCRIPTION APPR.
Revised 10/20/88 by T.M. Gates, Inc.
ASHLAND CHEMICAL COMPANY
A DIVISION OF ASHLAND OIL, INC.
APPROVED BY DATE
PLANT NEWARK, N.J.
UNIT-BLDG.
AREA
DRAWN JA
DATE 11-10-86
SCALE
FILE NO.
DRAWING NO. 7471-ZD-1
REV. 0
FIGURE 4
PLOT PLAN

842600140

ASHLAND CHEMICAL COMPANY - NEWARK, NEW JERSEY

TABLE 1

STORAGE TANKS AND PRODUCT INVENTORY

TANK #	CAPACITY (Gallons)	PRODUCT STORED	CHEMICAL NAME (If Different)
11	5,000	Hi Sol 15	Petroleum Distillate
12	5,000	Hi Sol 15	Petroleum Distillate
13	5,000	DTL-16	Blend of Petroleum Distillate
14	7,800	Propyl Acetate	
15	7,900	Isopropyl Acetate	
16	7,800	Lacolene	Petroleum Distillate
17	8,000	Lacolene	Petroleum Distillate
18	15,700	Cellosolve Solvent (unused)	Ethylene Glycol Ethyl Ether
19	15,800	Cellosolve Solvent (unused)	Ethylene Glycol Ethyl Ether Acetate
20	4,300	Propanol	
21	6,500	Perchlorcethylene	
22	4,300	Line Flush Tank	
23	3,000	Blend Tank	
24	3,000	Blend Tank	
25	3,000	Blend Tank	
26	22,900	Methyl Ethyl Ketone (unused)	
27	22,800	Methyl Isobutyl Ketone	
28	10,000	1309 Oil	Petroleum Distillate
29	14,900	Kwik Dri Solvent (unused)	Petroleum Distillate
30	2,400	Butyl Carbitol	Diethylene Glycol Butyl Ether
31	2,400	Empty	
32	2,400	P. M. Acetate	Propylene Glycol/Metnyl Ether Acetate
33	2,500	Empty	
34	15,000	Antifreeze	
35	15,000	99% Isopropanol	
36	5,000	Isobutyl Acetate	
37	10,000	Empty	
38	10,000	Hi Sol 10	Petroleum Distillate
39	10,000	Fuel Oil	Petroleum Distillate
40	10,000	Cyclohexanone	
41	10,000	DTL 10	Petroleum Distillate
42	20,000	Xylene	
43	10,000	Hexane	
44	10,000	Mineral Seal Oil	Petroleum Distillate
45	10,000	Odorless Mineral Spirits	Petroleum Distillate
46	10,000	Butyl Acetate	
47	15,000	Synasol Solvent	Ethanol
48	5,000	Empty	
49	7,700	Methylene Chloride	
50	7,300	Isobutanol	
51	5,000	Di Acetone Alcohol	
52	20,000	Butyl Cellosolve	Ethylene Glycol Butyl Ether
53	20,000	Methyl Ethyl Ketone	
54	20,000	Kwik Dri Solvent	Petroleum Distillate
55	13,900	Mineral Spirits	Petroleum Distillate

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TABLE 1 (Continued)

56	15,000	VM & P Naphtha	Petroleum Distillate
57	5,000	VM & P Naphtha	Petroleum Distillate
58	20,000	Acetone	
59	20,000	Empty	
60	19,900	Methanol	
61	20,000	Toluene	
62	20,300	Butanol	
63	5,000	Blend Tank	
91	20,000	Glycols	
92	10,000	Glycols	
102	20,000	Di Octyl Phthalate	
103	15,000	Di Isobutyl Phthalate (unused)	
104	10,000	1,1,1-Trichloroethane	
105	10,000	Empty	
106	10,000	Empty	
107	19,800	Empty	
108	15,000	Hi Sol 400	Petroleum Distillate
109	10,000	Di-butyl-phthalate	
110	10,000	Empty	
111	10,000	Empty	
112	19,900	Mineral Spirits 66	
113	19,900	Mineral Spirits 66	
114	19,900	Isopropyl Ether	
115	19,900	Ethyl Acetate	
116	19,900	Empty	
117	15,000	RCC	
142	15,000	Diesel Fuel	Petroleum Distillate
151	30,000	Ethyl Benzene	
152	30,000	Empty	
153	20,000	Hi Sol 4-3N	Petroleum Distillate
201	30,000	Empty/Cleaned	
202	30,000	Empty/Cleaned	
203	30,000	Empty/Cleaned	
204	30,000	Empty/Cleaned	
205	30,000	Empty/Cleaned	
206	30,000	Empty/Cleaned	
207	30,000	Empty/Cleaned	
208	30,000	Empty/Cleaned	
209	30,000	Empty/Cleaned	
210	20,000	Empty/Cleaned	
211	20,000	Empty/Cleaned	
212	20,000	Empty/Cleaned	
213	20,000	Empty/Cleaned	
214	30,000	Empty/Cleaned	
215	10,000	Fuel Oil #2	Petroleum Distillate
216	30,000	VM & P Napntha	Petroleum Distillate
217	30,000	Empty	
218	30,000	Empty	
Alpha	2,600	Blend Tank	
S-1	1,000	Recovered Solvents (Above ground tank)	Petroleum Distillate

ASHLAND CHEMICAL - NEWARK, NEW JERSEY

TABLE 5

SUMMARY OF DETECTABLE CONTAMINANT CONCENTRATIONS IN SOILS
JANUARY, 1989

VOLATILE ORGANICS	SB-1 (3-9')	SB-2 (6-12')	SB-3 (6-12')	SB-4 (0-6')	SB-5 (0-6')	SB-6 (0-6')	SB-7 (6-12')	SB-8 (6-12')	SB-9 (6-12')	SB-10 (6-12')	SB-11 (0-6')	SB-12 (0-6')	SB-13 (0-6')	SB-14 (0-6')	SB-15 (0-6')	SB-16 (0-6')	SB-17 (0-6')	SB-18 (0-6')	SB-19 (0-6')	SB-20 (0-6')	SB-21 (0-6')
HALOGENATED VOCs (U.S.EPA SW-846 Method 8240)																					
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.16	80	100	93	9	81	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	27	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	7	1	2	ND	2	ND	4	3	0.167	4	ND	ND	6	6	ND	1	ND	1	ND	ND	ND
1,1,2,2-Tetrachloroethane	3	ND	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	1	ND	ND	ND	ND	ND	ND	ND	ND	720	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AROMATIC VOCs (U.S.EPA SW-846 Methods 8240 and 8250)																					
Benzene	2	ND	ND	ND	ND	ND	1	ND	ND	9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	10	ND	ND	ND	ND	ND	ND	ND	ND	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	1	2	ND	ND	ND	1	1	ND	18	ND	11	ND	7	ND	ND	ND	ND	ND	8	ND
Toluene	ND	2	ND	ND	ND	ND	1	ND	ND	1	ND	12	36	ND	36	ND	22	3	ND	66	ND
Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	670	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene	2	2	4	ND	ND	ND	1	ND	ND	17	ND	87	11	22	300	ND	ND	ND	ND	39	ND
KETONES (U.S.EPA SW-846 Method 8240)																					
Acetone	3	1	ND	ND	ND	ND	2	3	0.203	2	ND	ND	11	9	8	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone (MIBK)	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PETROLEUM DISTILLATES																					
AROMATIC SOLVENTS (GC/FID Method based upon ASTM D3328)																					
Hi Sol 10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4728	ND	ND	ND	ND	ND	ND
Hi Sol 15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hi Sol 400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1464
ALIPHATIC SOLVENTS (GC/FID Method based upon ASTM D3328)																					
Lacolene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mineral Spirits	ND	ND	ND	ND	3300	ND	ND	ND	ND	ND	ND	20454	10654	ND	ND	ND	ND	ND	7110	ND	3122
140 Solvent	ND	ND	ND	8683	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
OTHER (GC/FID Method based upon ASTM D3328)																					
Fuel Oil No. 2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	49100	ND	ND
Total Pet. Distillates (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6700	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Petroleum Hydrocarbons (U.S.EPA Method 418.1)	NA	NA	NA	NA	NA	NA	ND	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL HALO. VOCs:	10	2	4	ND	2	ND	4	3	0.167	5	720	0.16	86	106	93	10	81	1	ND	27	ND
TOTAL AROM. VOCs:	29	5	6	ND	ND	ND	4	1	ND	46	670	110	47	29	336	ND	22	3	ND	113	ND
TOTAL KETONES:	3	1	ND	ND	ND	ND	2	3	0.203	3	ND	ND	11	9	8	ND	ND	ND	ND	ND	ND
TOTAL VOCs:	42	8	10	ND	2	ND	10	7	0.37	54	1390	110.16	144	144	437	10	103	4	ND	140	ND
TOTAL AROM. SOLVENTS:	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4728	ND	ND	ND	ND	ND	1464
TOTAL ALIPH. SOLVENTS:	ND	ND	ND	8683	3300	ND	ND	ND	ND	ND	ND	20454	10654	ND	ND	ND	ND	ND	7110	ND	3122
TOTAL OTHER:	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6700	ND	ND	ND	ND	ND	ND	ND	49100	ND	ND
TOTAL PETROLEUM DIST:	ND	ND	ND	8683	3300	ND	ND	ND	ND	ND	6700	20454	10654	ND	4728	ND	ND	ND	56210	ND	4586
TOTAL ORGANICS:	42	8	10	8683	3302	ND	10	7	0.37	54	8090	20564	10798	144	5165	10	103	4	56210	140	4586

NOTES: All results in milligrams per kilogram (mg/kg).
ND indicates compound not detected.
NA indicates compound not analyzed.

(1) "Total Petroleum Distillates" as mineral spirits, used when characteristic product patterns were not identifiable.

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ASHLAND CHEMICAL - NEWARK, NEW JERSEY

TABLE 5 (continued)

SUMMARY OF DETECTABLE CONTAMINANT CONCENTRATIONS IN SOILS
JANUARY, 1989

VOLATILE ORGANICS	SB-22 (0-6")	SB-23 (0-6")	SB-24 (0-6")	SB-25 (0-6")	SB-26 (0-6")	SB-27 (0-6")	SB-28 (0-6")	SB-29 (0-6")	SB-30 (0-6")	SB-31 (0-6")	SB-32 (0-6")	SB-33 (6-6")	SB-34 (0-6")	SB-35 (0-6")	SB-36 (3-9")	SB-37 (0-6")	SB-38 (6-12")	SB-39 (0-6")	SB-40 (0-6")	SB-41 (0-6")	SB-42 (0-6")	SB-43 (0-6")
HALOGENATED VOCs (U.S.EPA SW-846 Method 8240)																						
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	ND	ND	ND	0.3	ND	0.26	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	8	ND	ND	1	1	5	6	ND	4	ND	ND	25	15	9	9	2	ND	ND	ND	2
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	160	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	120	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AROMATIC VOCs (U.S.EPA SW-846 Method 8240)																						
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4	ND	1	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	990	ND	ND	2	ND	ND	ND	ND	13	ND	ND	ND	1	ND	ND	91	ND	ND	ND
Toluene	ND	ND	32	54	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	ND	ND	48	19	ND	3
Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene	ND	ND	ND	380	ND	ND	29	ND	ND	ND	ND	27	ND	ND	ND	ND	1	ND	63	18	ND	ND
KETONES (U.S.EPA SW-846 Method 8240)																						
Acetone	ND	ND	8	ND	ND	ND	ND	ND	ND	5	1	ND	ND	2	4	2	3	1	ND	15	ND	1
2-Butanone (MEK)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	ND	ND	ND	ND	ND
2-Hexanone	ND	ND	ND	130	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone (MIBK	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PETROLEUM DISTILLATES																						
AROMATIC SOLVENTS (GC/FID Method based upon ASTM D3328)																						
Hi Sol 10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hi Sol 15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hi Sol 400	ND	ND	4218	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ALIPHATIC SOLVENTS (GC/FID Method based upon ASTM D3328)																						
Lacolene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mineral Spirits	ND	ND	ND	ND	ND	ND	ND	ND	ND	771	ND	3011	1344	ND	ND	ND	ND	ND	ND	ND	ND	ND
140 Solvent	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
OTHER (GC/FID Method based upon ASTM D3328)																						
Fuel Oil No. 2	ND	ND	ND	ND	ND	ND	ND	ND	ND	3323	ND	5574	ND	ND	ND	ND	ND	ND	3600	ND	ND	ND
Total Pet. Distillates (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Petroleum Hydrocarbons (U.S.EPA Method 418.1)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	63	NA	NA	NA	NA	NA	NA	2300
TOTAL HALO. VOCs:	ND	ND	8	160	ND	1	1	5	6	1	4	ND	ND	25.3	15	10.26	9	2	120	ND	ND	2
TOTAL AROM. VOCs:	ND	ND	32	1424	ND	ND	31	ND	ND	ND	ND	52	ND	ND	4	2	2	ND	202	37	ND	3
TOTAL KETONES:	ND	ND	8	130	ND	ND	ND	ND	ND	5	1	ND	ND	2	4	2	4	1	ND	15	ND	1
TOTAL VOCs:	ND	ND	48	1714	ND	1	32	5	6	6	5	52	ND	27.3	23	14.26	15	3	322	52	ND	6
TOTAL AROM. SOLVENTS:	ND	ND	4218	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL ALIPH. SOLVENTS:	ND	ND	ND	ND	ND	ND	ND	ND	ND	771	ND	3011	1344	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL OTHER:	ND	ND	ND	ND	ND	ND	ND	ND	ND	3323	ND	5574	ND	ND	63	ND	ND	ND	3600	ND	ND	2300
TOTAL PETROLEUM DIST:	ND	ND	4218	ND	ND	ND	ND	ND	ND	4094	ND	8585	1344	ND	63	ND	ND	ND	3600	ND	ND	2300
TOTAL ORGANICS:	ND	ND	4266	1714	ND	1	32	5	6	4100	5	8637	1344	27.3	86	14.26	15	3	3922	52	ND	2306

NOTES: All results in milligrams per kilogram (mg/kg).
ND indicates compound not detected.
NA indicates compound not analyzed.

(1) "Total Petroleum Distillates" as mineral spirits, used when characteristic product patterns were not identifiable.

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ASHLAND CHEMICAL - NEWARK, NEW JERSEY

TABLE 5 (continued)

SUMMARY OF DETECTABLE CONTAMINANT CONCENTRATIONS IN SOILS
JANUARY, 1989

VOLATILE ORGANICS	SB-44 (0-6")	SB-45 (0-6")	SB-46 (0-6")	SB-47 (3-9")	SB-48 (3-9")	SB-49 (3-9")	SB-50 (3-9")	SB-51 (0-6")	SB-52 (0-6")	SB-53 (6-12")	SB-54 (6-12")	MW-1 (3-9")	MW-2 (6-12")	MW-3 (6-12")	MW-4 (6-12")	MW-5 (6-12")	MW-6 (0-6")	MW-7 (6-12")	MW-8 (6-12")	MW-9 (6-12")	MW-10 (6-12")
HALOGENATED VOCs (U.S.EPA SW-846 Method 8240)																					
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	7	ND	ND	ND	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	ND	ND	ND	ND	92	ND	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	1	3	2	ND	150	2	4	2	5	9	12	3	3	2	5	1	1	1	0.166	3	2
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	630	ND	ND	ND	ND	ND	9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	56	ND	ND	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AROMATIC VOCs (U.S.EPA SW-846 Method 8240)																					
Benzene	ND	ND	ND	ND	12	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	640	1	ND	ND	ND	75	90	ND	ND	ND	34	ND	ND	ND	ND	ND	ND
Toluene	3	ND	ND	ND	720	ND	ND	ND	1	85	80	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene	ND	ND	ND	21	13000	1	ND	ND	ND	380	65	ND	ND	ND	58	1	1	ND	ND	6	ND
KETONES (U.S.EPA SW-846 Method 8240)																					
Acetone	1	3	ND	ND	60	2	2	ND	ND	20	17	ND	5	1	ND	1	1	ND	0.203	4	2
2-Butanone (MEK)	ND	ND	ND	ND	38	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	ND	ND	ND	ND	108	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone (MIBK	ND	ND	ND	ND	180	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PETROLEUM DISTILLATES																					
AROMATIC SOLVENTS (GC/FID Method based upon ASTM D3328)																					
Hi Sol 10	ND	ND	ND	429	2646	ND	ND	ND	ND	769	2451	ND	ND	ND	ND	ND	ND	ND	230	ND	ND
Hi Sol 15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hi Sol 400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ALIPHATIC SOLVENTS (GC/FID Method based upon ASTM D3328)																					
Lacolene	ND	ND	ND	ND	880	ND	ND	ND	ND	ND	1734	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mineral Spirits	ND	ND	ND	ND	5155	712	ND	ND	ND	2930	12355	ND	ND	ND	ND	ND	ND	ND	460	ND	ND
140 Solvent	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
OTHER (GC/FID Method based upon ASTM D3328)																					
Fuel Oil No. 2	ND	ND	ND	ND	ND	3600	ND	ND	4888	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Pet. Distillates (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	720	3600	ND	ND	ND	ND	4400	ND
Petroleum Hydrocarbons (U.S.EPA Method 418.1)	640	73	870	2000	670	4800	79	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL HALO. VOCs:	1	3	2	ND	941	2	7	3	10	9	21	5	3	2	5	2	1	1	0.166	3	2
TOTAL AROM. VOCs:	3	ND	ND	21	14372	2	ND	ND	1	551	235	ND	ND	ND	92	1	1	ND	ND	9	ND
TOTAL KETONES:	1	3	ND	ND	386	2	2	ND	ND	20	17	ND	5	1	ND	1	1	ND	0.203	4	2
TOTAL VOCs:	5	6	2	21	15699	6	9	3	11	580	273	5	8	3	97	4	4	1	0.369	16	4
TOTAL AROM. SOLVENTS:	ND	ND	ND	429	2646	ND	ND	ND	ND	769	2451	ND	ND	ND	ND	ND	ND	ND	230	ND	ND
TOTAL ALIPH. SOLVENTS:	ND	ND	ND	ND	6035	712	ND	ND	ND	2930	14089	ND	ND	ND	ND	ND	ND	ND	460	ND	ND
TOTAL OTHER:	640	73	870	2000	670	8400	79	ND	4888	ND	ND	ND	ND	720	3600	ND	ND	ND	ND	4400	ND
TOTAL PETROLEUM DIST:	640	73	870	2429	9351	9112	79	ND	4888	3699	16540	ND	ND	720	3600	ND	ND	ND	690	4400	ND
TOTAL ORGANICS:	645	79	872	2450	25050	9118	88	3	4899	4279	16813	5	8	723	3697	4	4	1	690.369	4416	4

NOTES: All results in milligrams per kilogram (mg/kg).
ND indicates compound not detected.
NA indicates compound not analyzed.

(1) "Total Petroleum Distillates" as mineral spirits, used when characteristic product patterns were not identifiable.

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ASHLAND CHEMICAL - NEWARK, NEW JERSEY

TABLE 5 (continued)

SUMMARY OF DETECTABLE CONTAMINANT CONCENTRATIONS IN SOILS
JANUARY, 1989

VOLATILE ORGANICS	MW-11 (6-12")	MW-12 (3-9")	MW-13 (6-12")	MW-14 (6-12")	MW-15 (6-12")	MW-16 (6-12")	MW-17 (6-12")	MW-18 (6-12")	MW-19 (6-12")	MW-20 (3-9")	MW-21 (3-9")	MW-22 (3-9")	MW-23 (6-12")	MW-24 (6-12")	MW-25 (6-12")	MW-26 (6-12")	MW-27 (6-12")
HALOGENATED VOCs (U.S.EPA SW-846 Method 8240)																	
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.37	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	ND	5	ND	ND	ND	ND	ND	ND	ND	ND	38	ND	ND	ND	ND	12	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	3	3	8	7	2	4	ND	2	2	2	2	7	ND	2	ND	4	4
1,1,2,2-Tetrachloroethane	ND	11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	82	ND	ND	ND	ND	ND	ND	1	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	18	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	15	ND	ND	ND	ND	ND	ND	ND	ND	26	ND	ND	ND	ND	8	ND
AROMATIC VOCs (U.S.EPA SW-846 Method 8240)																	
Benzene	ND	1	ND	ND	ND	3	ND	1	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	16	ND	ND	ND	23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	18	ND	ND	ND	3	ND	ND	1	ND	ND	ND	ND	ND	ND	1	ND
Styrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene	ND	42	ND	ND	ND	6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
KETONES (U.S.EPA SW-846 Method 8240)																	
Acetone	1	2	3	3	3	3	ND	2	2	1	3	2	ND	ND	6	ND	ND
2-Butanone (MEK)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone (MIBK	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PETROLEUM DISTILLATES																	
AROMATIC SOLVENTS (GC/FID Method based upon ASTM D3328)																	
Hi Sol 10	ND	ND	ND	ND	ND	ND	ND	471	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hi Sol 15	ND	1255	ND	ND	ND	195	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hi Sol 400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ALIPHATIC SOLVENTS (GC/FID Method based upon ASTM D3328)																	
Lacolene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mineral Spirits	ND	5466	ND	ND	ND	ND	1482	ND	ND	ND	ND	ND	ND	ND	1018	ND	ND
140 Solvent	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4871	ND	ND	ND	ND
OTHER (GC/FID Method based upon ASTM D3328)																	
Fuel Oil No. 2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Pet. Distillates (1)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Petroleum Hydrocarbons (U.S.EPA Method 418.1)	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL HALO. VOCs:	3	135	8	7	2	4	ND	2	3	2.37	66	7	ND	2	ND	24	4
TOTAL AROM. VOCs:	ND	77	ND	ND	ND	35	ND	1	1	ND	ND	ND	ND	ND	ND	1	ND
TOTAL KETONES:	1	2	3	3	3	3	ND	2	2	1	3	2	ND	ND	6	ND	ND
TOTAL VOCs:	4	214	11	10	5	42	ND	5	6	3	69	9	ND	2	6	25	4
TOTAL AROM. SOLVENTS:	ND	1255	ND	ND	ND	195	ND	471	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL ALIPH. SOLVENTS:	ND	5466	ND	ND	ND	ND	1482	ND	ND	ND	ND	ND	4871	ND	1018	ND	ND
TOTAL OTHER:	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL PETROLEUM DIST:	ND	6721	ND	ND	ND	195	1482	471	ND	ND	ND	ND	4871	ND	1018	ND	ND
TOTAL ORGANICS:	4	6935	11	10	5	237	1482	476	6	3.37	69	9	4871	2	1024	25	4

NOTES: All results in milligrams per kilogram (mg/kg).
ND indicates compound not detected.
NA indicates compound not analyzed.

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ASHLAND CHEMICAL - NEWARK, NEW JERSEY

Table 6A

SUMMARY OF DETECTABLE CONTAMINANT CONCENTRATIONS IN GROUNDWATER - EAST PLANT
March 7, 8 and 9, 1989

	MW-11	MW-12	MW-13	MW-14	MW-15	MW-16	MW-17	MW-18	MW-19	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25	MW-26	MW-27	RANGE MINIMUM	RANGE MAXIMUM	AVERAGE	SUMP-1
HALOGENATED VOCs (ppm) (U.S. EPA Method 8240)																					
Chloroethane	ND	ND	ND	ND	ND	ND	ND	16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	16	0.94	12
1,1-Dichloroethane	ND	18	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	18	1.06	0.93
1,2-Dichloroethane	ND	110	ND	ND	ND	ND	ND	14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	110	7.29	ND
1,2-Dichloroethene (total)	ND	130	ND	ND	ND	90	ND	2.3	ND	ND	0.026	ND	0.0096	17	ND	18	ND	ND	130	15.14	ND
1,2-Dichloropropane	ND	75	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	75	4.41	ND
Methylene Chloride	ND	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	50	2.94	ND
Tetrachloroethene	ND	11	ND	ND	ND	60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	60	4.18	ND
1,1,1-Trichloroethane	ND	6	ND	ND	ND	ND	ND	5.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6	0.65	ND
Trichloroethene	ND	15	ND	ND	ND	9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15	1.41	ND
Vinyl Chloride	ND	ND	ND	ND	ND	115	ND	ND	ND	ND	ND	ND	ND	37	ND	22	ND	ND	115	10.24	ND
Total Halogenated VOCs	ND	415	ND	ND	ND	274	ND	37.4	ND	ND	0.026	ND	0.0096	54	ND	40	ND			48.26	12.93
AROMATIC VOCs (ppm) (U.S.EPA Method 8240, 8250)																					
Benzene	ND	51	0.014	ND	ND	3.1	ND	14	ND	ND	ND	ND	0.012	0.31	ND	ND	ND	ND	51.00	4.03	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	0.79	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.79	0.05	0.52
Toluene	ND	28	0.06	ND	ND	30.5	ND	6.7	ND	ND	ND	ND	ND	2.1	ND	2.3	ND	ND	30.50	4.10	4.10
Xylene	ND	10	ND	ND	ND	9	ND	47	ND	ND	ND	5.40	ND	0.7	ND	ND	ND	ND	47.00	4.24	3.60
Total Aromatic VOCs	ND	89	0.074	ND	ND	42.6	ND	68.49	ND	ND	ND	5.40	0.012	3.11	ND	2.30	ND			12.42	8.22
KETONES (ppm) (U.S. EPA Method 8240)																					
Acetone	0.027	75	ND	ND	ND	ND	ND	ND	0.012	0.50	ND	0.048	ND	ND	ND	ND	ND	ND	75.00	4.45	2.50
2-Butanone (MEK)	ND	ND	ND	ND	ND	ND	ND	2.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.50	0.15	ND
4-Methyl-2-Pentanone (MIBK)	ND	21	ND	ND	ND	ND	ND	1.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	21.00	1.31	1.30
2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.10
Total Ketones	0.027	96	ND	ND	ND	ND	ND	3.8	0.012	0.50	ND	0.048	ND	ND	ND	ND	ND			5.91	4.90
PETROLEUM DISTILLATES (ppm) (GC/FID Method based upon ASTM D3328)																					
AROMATIC SOLVENTS																					
Hi Sol 10	ND	ND	ND	ND	ND	0.0111	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0111	ND	ND
ALIPHATIC SOLVENTS																					
Hexane	ND	ND	0.10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.1	ND	ND
OTHER																					
Iso-propyl Ether	ND	ND	ND	ND	ND	0.20	11	ND	ND	0.40	ND	ND	ND	ND	ND	1.40	ND	ND	11	0.77	1.60
Fuel Oil #2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.479
Total Petroleum Distillates	ND	ND	0.10	ND	ND	0.2111	11	ND	ND	0.40	ND	ND	ND	ND	ND	1.40	ND			0.77	2.079
TOTAL ORGANICS (ppm)	0.027	600	0.174	ND	ND	316.81	11	109.69	0.012	0.9	0.026	5.448	0.022	57.11	ND	43.7	ND			67.36	28.13
INDICATORS																					
pH (Std units)	6.68	9.50	*	5.60	6.93	5.57	7.25	6.08	6.98	7.25	7.51	*	*	*	*	*	*				6.90
SPEC. COND. (umh)	790	2810	*	824	785	2420	3640	790	925	1000	1049	*	*	*	*	*	*				810.00
TDS (mg/l)	490	2300	*	490	460	1900	1000	610	530	580	640	*	*	*	*	*	*				500.00

Note: ND = Not detected
* = INFORMATION NOT SUPPLIED BY LABORATORY

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ASHLAND CHEMICAL - NEWARK, NEW JERSEY

TABLE 6A (continued)

PRIORITY POLLUTANT METALS DETECTED IN GROUNDWATER - EAST PLANT
March 8, 1989

	MW-16	MW-18	MW-20	MW-21
ANTIMONY	ND	ND	ND	ND
ARSENIC	ND	ND	ND	ND
BERYLLIUM	ND	ND	ND	ND
CADMIUM	0.05	0.099	0.029	0.029
CHROMIUM	ND	ND	ND	ND
COPPER	ND	ND	0.091	ND
LEAD	0.11	0.36	0.47	0.2
MERCURY	ND	ND	ND	ND
NICKEL	ND	0.19	ND	ND
SELENIUM	ND	ND	ND	ND
SILVER	ND	ND	ND	ND
THALLIUM	ND	ND	ND	ND
ZINC	0.099	ND	0.23	ND

Note: All concentrations in milligrams/liter

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ASHLAND CHEMICAL - NEWARK, NEW JERSEY

Table 6B

SUMMARY OF DETECTABLE CONTAMINANT CONCENTRATIONS IN GROUNDWATER - WEST PLANT
March 9, 1989

	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	RANGE MIN	RANGE MAX	AVERAGE
HALOGENATED VOCs (ppm) (U.S. EPA Method 8240)													
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	3.8	ND	ND	ND	ND	ND	ND	3.80	0.38
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	0.08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.08	0.01
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Halogenated VOCs	0.08	ND	ND	ND	3.8	ND	ND	ND	ND	ND			0.39
AROMATIC VOCs (ppm) (U.S.EPA Method 8240, 8250)													
Benzene	1.7	0.208	4	0.028	90	23	ND	ND	ND	ND	ND	90	11.89
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	3.3	ND	ND	ND	ND	ND	ND	3.3	0.33
Xylene	1.1	ND	0.26	ND	ND	ND	ND	ND	0.034	ND	ND	1.1	0.14
Total Aromatic VOCs	2.8	0.208	4.26	0.028	93.3	23	ND	ND	0.034	ND			12.36
KETONES (ppm) (U.S. EPA Method 8240)													
Acetone	0.17	0.0098	0.15	0.008	3.6	1.5	0.0088	0.0053	0.014	0.009	ND	3.60	0.548
2-Butanone (MEK)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone (MIBK)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Ketones	0.17	0.0098	0.15	0.008	3.6	1.5	0.0088	0.0053	0.014	0.009			0.548
PETROLEUM DISTILLATES (ppm) (GC/FID Method based upon ASTM D3328)													
AROMATIC SOLVENTS													
Hi Sol 10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ALIPHATIC SOLVENTS													
Hexane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
OTHER													
Iso-propyl Ether	ND	ND	ND	0.20	ND	ND	ND	ND	ND	ND	ND	0.20	0.02
Fuel Oil #2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Petroleum Distillates	ND	ND	ND	0.20	ND	ND	ND	ND	ND	ND			0.02
TOTAL ORGANICS (ppm)	3.05	0.22	4.41	0.236	100.7	24.5	0.0088	0.0053	0.048	0.009			13.32
INDICATORS													
pH (Std units)	5.60	3.50	8.13	9.30	7.54	2.10	9.30	5.50	7.90	4.50			
SPEC.COND. (umh)	1480	3460	3250	517	1470	* 3980	755	794	1390	2710			
TDS (mg/l)	530	1600	2200	320	450	1200	480	500	390	1700			

Note: ND = Not detected
* = INFORMATION NOT SUPPLIED BY LABORATORY

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ASHLAND CHEMICAL - NEWARK, NEW JERSEY

TABLE 6B (continued)

PRIORITY POLLUTANT METALS DETECTED IN GROUNDWATER - WEST PLANT
March 9, 1989

	MW-1	MW-2	MW-3
ANTIMONY	ND	ND	ND
ARSENIC	ND	ND	0.7
BERYLLIUM	ND	ND	ND
CADMIUM	ND	ND	0.025
CHROMIUM	ND	0.1	0.17
COPPER	ND	ND	0.052
LEAD	ND	ND	0.074
MERCURY	ND	ND	ND
NICKEL	0.28	0.38	0.84
SELENIUM	ND	ND	ND
SILVER	ND	ND	ND
THALLIUM	ND	ND	ND
ZINC	0.12	0.096	0.49

Note: All concentrations in miligrams/liter

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ASHLAND CHEMICAL COMPANY - NEWARK, NEW JERSEY

TABLE 9

SUMMARY OF PRELIMINARY ANALYTICAL DATA
(concentration in ppm)

	EAST PLANT											WEST PLANT					
	SW-1 WATER	SW-2 WATER PHASE	SW-2 SINKER PHASE	S-1 SOIL	S-2 SOIL	S-3 SOIL	S-4 SOIL	S-5 SOIL	S-6 SOIL	S-7 SOIL	S-8 SOIL	SW-3 WATER	SW-4 WATER PHASE	SW-4 FLOATER PHASE	S-9 SOIL	S-10 SOIL	S-11 SOIL
Purgeables																	
bromodichloromethane	(0.08	(3.3	(13	(3.3	(3.3	(0.33	(0.005	(0.08	(0.005	(3.3	(3.3	(0.005	(0.13	(12	(0.33	(0.33	(3.3
bromoform	(0.08	(3.3	(13	(3.3	(3.3	(0.33	(0.005	(0.08	(0.005	(3.3	(3.3	(0.005	(0.13	(12	(0.33	(0.33	(3.3
bromomethane	(0.08	(3.3	(13	(3.3	(3.3	(0.33	(0.005	(0.08	(0.005	(3.3	(3.3	(0.005	(0.13	(12	(0.33	(0.33	(3.3
carbon tetrachloride	(0.08	(3.3	(13	(3.3	(3.3	(0.33	(0.005	(0.08	(0.005	(3.3	(3.3	(0.005	(0.13	(12	(0.33	(0.33	(3.3
chlorobenzene	(0.08	(3.3	(13	(3.3	(3.3	(0.33	(0.005	(0.08	(0.005	(3.3	(3.3	(0.005	(0.13	(12	(0.33	(0.33	(3.3
chloroethane	10	(3.3	(13	(3.3	(3.3	(0.33	(0.005	(0.08	(0.005	(3.3	(3.3	(0.005	(0.13	(12	(0.33	(0.33	(3.3
2-chloroethylvinyl ether	(0.08	(3.3	(13	(3.3	(3.3	(0.33	(0.005	(0.08	(0.005	(3.3	(3.3	(0.005	(0.13	(12	(0.33	(0.33	(3.3
chloroform	(0.08	(3.3	(13	(3.3	(3.3	(0.33	(0.005	(0.08	(0.005	(3.3	(3.3	(0.005	(0.13	(12	(0.33	(0.33	(3.3
chloromethane	(0.08	(3.3	(13	(3.3	(3.3	(0.33	(0.005	(0.08	(0.005	(3.3	(3.3	(0.005	(0.13	(12	(0.33	(0.33	(3.3
dibromochloromethane	(0.08	(3.3	(13	(3.3	(3.3	(0.33	(0.005	(0.08	(0.005	(3.3	(3.3	(0.005	(0.13	(12	(0.33	(0.33	(3.3
1,2-dichlorobenzene	(0.08	(3.3	(13	(3.3	(3.3	(0.33	(0.005	(0.08	(0.005	(3.3	(3.3	(0.005	(0.13	(12	(0.33	(0.33	(3.3
1,3-dichlorobenzene	(0.08	(3.3	(13	(3.3	(3.3	(0.33	(0.005	(0.08	(0.005	(3.3	(3.3	(0.005	(0.13	(12	(0.33	(0.33	(3.3
1,4-dichlorobenzene	(0.08	(3.3	(13	(3.3	(3.3	(0.33	(0.005	(0.08	(0.005	(3.3	(3.3	(0.005	(0.13	(12	(0.33	(0.33	(3.3
dichlorodifluoromethane	(0.08	(3.3	(13	(3.3	(3.3	(0.33	(0.005	(0.08	(0.005	(3.3	(3.3	(0.005	(0.13	(12	(0.33	(0.33	(3.3
1,1-dichloroethane	3.5	(3.3	55	(3.3	(3.3	(0.33	(0.005	130	(0.005	9.5	(3.3	(0.005	(0.13	(12	(0.33	4.5	(3.3
1,2-dichloroethane	(0.08	(3.3	180	(3.3	(3.3	(0.33	(0.005	0.30	(0.005	(3.3	(3.3	(0.005	(0.13	(12	(0.33	(0.33	(3.3
1,1-dichloroethylene	(0.08	8.5	1,900	(3.3	(3.3	(0.33	(0.005	170	(0.005	(3.3	(3.3	(0.005	0.23	(12	(0.33	8.0	(3.3
trans-1,2-dichloroethene	0.79	(3.3	(13	(3.3	(3.3	(0.33	(0.005	(0.08	(0.005	(3.3	(3.3	(0.005	(0.13	(12	(0.33	(0.33	(3.3
1,2-dichloropropane	(0.08	(3.3	(13	(3.3	(3.3	(0.33	(0.005	(0.08	(0.005	(3.3	(3.3	(0.005	(0.13	(12	(0.33	(0.33	(3.3
cis-1,3-dichloropropene	(0.08	(3.3	(13	(3.3	(3.3	(0.33	(0.005	(0.08	(0.005	(3.3	(3.3	(0.005	(0.13	(12	(0.33	(0.33	(3.3
trans-1,3-dichloropropene	(0.08	(3.3	(13	(3.3	(3.3	(0.33	(0.005	(0.08	(0.005	(3.3	(3.3	(0.005	(0.13	(12	(0.33	(0.33	(3.3
methylene chloride	0.44	(3.3	(13	(3.3	(3.3	(0.33	(0.005	(0.08	(0.005	(3.3	(3.3	(0.005	(0.13	(12	(0.33	(0.33	(3.3
1,1,2,2-tetrachloroethane	(0.08	(3.3	(13	(3.3	(3.3	(0.33	(0.005	(0.08	(0.005	(3.3	(3.3	(0.005	(0.13	(12	(0.33	(0.33	(3.3
tetrachloroethylene	(0.08	(3.3	(13	(3.3	(3.3	(0.33	(0.005	(0.08	(0.005	21	(3.3	(0.005	(0.13	(12	(0.33	(0.33	(3.3
1,1,1-trichloroethane	1.2	900	130,000	(3.3	(3.3	(0.33	(0.005	11,000	(0.005	(3.3	7.5	0.005	19	69	24	370	(3.3
1,1,2-trichloroethane	(0.08	(3.3	(13	(3.3	(3.3	(0.33	(0.005	(0.08	(0.005	(3.3	(3.3	(0.005	(0.13	(12	(0.33	(0.33	(3.3
trichloroethylene	(0.08	(3.3	16	(3.3	(3.3	(0.33	(0.005	1.8	(0.005	(3.3	(3.3	(0.005	(0.13	(12	(0.33	(0.33	(3.3
trichlorofluoromethane	(0.08	(3.3	(13	(3.3	(3.3	(0.33	(0.005	(0.08	(0.005	(3.3	(3.3	(0.005	(0.13	(12	(0.33	(0.33	(3.3
vinyl chloride	0.34	(3.3	(13	(3.3	(3.3	(0.33	0.12	3.0	(0.005	4.9	9.4	(0.005	(0.13	(12	0.87	(0.33	(3.3
benzene	(0.08	(3.3	(13	(3.3	(3.3	(0.33	0.11	(0.08	(0.005	4.2	(3.3	(0.005	(0.13	(12	(0.33	(0.33	(3.3
ethylbenzene	(0.08	(3.3	(13	6,200	68	9.4	1.2	(0.08	(0.005	6.1	24	(0.005	(0.13	(12	(0.33	(0.33	(3.3
toluene	(0.08	(3.3	(13	3.3	16	(0.33	0.17	1.5	0.07	52	160	(0.005	(0.13	(12	(0.33	(0.33	(3.3
xylenes	(0.08	43	(13	430	11	9.7	0.46	0.12	(0.005	160	71	(0.005	(0.13	(12	2.0	46	260
acetone	(4.0	(180	(850	(180	(180	(17	(0.3	(4.0	(0.3	(180	(180	(0.30	(1.3	(120	(17	(17	(180
4-methyl-2-pentanone (MIBK)	(4.0	(180	(850	(180	(180	5.4	(0.3	(4.0	(0.3	120	78	(0.30	(1.3	(120	(17	3.5	(180
2-butanone (MEK)	(4.0	(180	(850	(180	(180	(17	(0.3	(4.0	(0.3	(180	(180	(0.30	(1.3	(120	(17	(17	(180
hexane	(0.40	(18	(85	(18	(18	(1.7	(0.03	(0.40	(0.03	(16	(18	(0.03	(0.65	(60	(1.7	(1.7	(18
heptane	(0.40	(18	(85	(18	(18	(1.7	(0.03	(0.40	(0.03	(18	(18	(0.03	(0.65	(60	(1.7	(1.7	(18
VM & P naphtha	(13	(330	(1,300	(330	(330	(33	(0.5	(8.0	(0.5	(330	(330	(0.5	(13	(1,200	(33	(33	(330
mineral spirits	(13	3,400	(1,300	(330	(330	1,100	2.1	8.3	(0.1	(330	(330	(0.5	(13	(1,200	410	4,400	14,000
140 solvent	(26	(660	(2,600	(660	(660	(66	(1.0	(16	(1.0	(660	(660	(1.0	(26	(2,400	(66	(66	(660
TOTAL ORGANICS	16.27	4,351.5	132,151	6,630	115	1,122.6	4.16	11,375.02	0.07	377.7	349.9	0.005	19.23	69	436.87	4,832.0	14,260

T. M. GATES, INC.

842600150

75/76

1975-1976

Ashland Chemicals

product catalog

842600151

842600152

Ashland Chemicals

Ashland Chemical Company is both manufacturer and distributor of a broad line of chemicals and chemical products. This catalog describes some of the products and services available through an extensive distribution network in Continental USA, and to a lesser extent in 18 nations around the world. Research, quality control and a high degree of specialization in areas of primary service provide a base for pioneering as well as supplying large quantities of chemicals to all kinds of manufacturers.

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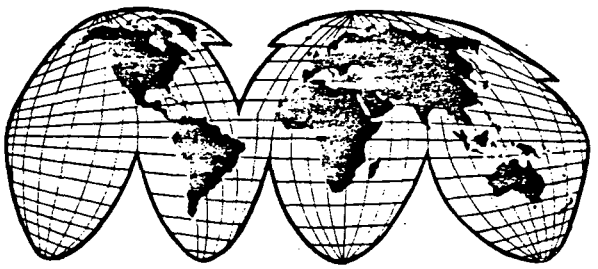

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Quality chemicals manufactured in major plants across the country find use in detergent, toiletries, cosmetics, mining, pharmaceutical, food, coatings, germicide, fabric softener, plastics, paper, textile, leather and many other industries. Innovation in products and processing has provided an abundance of new and superior chemicals. Research is a regular part of business activities to assure continuing improvement. Active quality control and careful compliance with the multiplicity of government regulations also receive full-time attention.

Listings in this catalog are necessarily incomplete. Changes in product lines, products of limited interest and variations of listed products make any catalog inadequate as a total directory of what is available, suggesting that needs for related chemicals can be filled. Your inquiries are invited.

Veg™ Fatty Acids	Trademark	Titer °C	Acid Value	Iodine Value	Color Gardner	Sap Value
Linseed Fatty Acids						
Water White Distilled	VEG Acid 520	17-20.5	197-204	178 min	3 max	197-204
Regular Distilled	VEG Acid 505	17-24	195-202	155 min	7 max	196-203
Soya Fatty Acids						
Water White Distilled	VEG Acid 120	21-24	197-204	133 min	2 max	198-206
Regular Distilled	VEG Acid 105	21-29	195-205	125 min	6 max	196-207
Chemically Stabilized	VEG Acid RO-11-S	22-30	195-205	124 min	4 max	198-207
Miscellaneous Fatty Acids						
Double-Distilled Coco	VEG Acid 620	22-26	260-274	6-14	3 max	261-275
Double-Distilled Corn/Cotton	VEG Acid 830	29-35	195-205	102-117	8 max	197-208

Starfol® Esters	Trademark	% Mono	Source	Iodine Value (max)	Acid Value (max)	C.T. M.P. °C	% Free Glycerine (max)	Sap Value
Glyceryl Monostearate	STARFOL GMS-900	87 min α	Animal	2	3	69-77	1	155-165
Distilled	STARFOL GMS-960	87 min α	Vegetable	2	3	69-77	1	150-160
GMS, 60 Mono	STARFOL GMS-600	52-56 α	Animal	2	2	59-63	1.5	160-170
GMS, 40 Mono	STARFOL GMS-450	40-45 α	Animal	2	2	58-62	1	170-180
GMS, Ethoxylated	STARFOL D	APHA Color 250 max	Animal		2			65-75
Butyl Stearate	STARFOL BS-100	APHA35max		2	1	17-26		166-173
Isopropyl Myristate	STARFOL IPM	APHA20max		1	1			202-212
Isopropyl Palmitate	STARFOL IPP	APHA30max		1	1			182-192

		C.T. Melting Point °C	Acid Value (max)	Sap Value	Iodine Value (max)
Synthetic Spermaceti Wax	STARFOL WAX CG	46-49	2	109-117	1.0
Ethylene Glycol Monostearate	STARFOL EGMS	54 av	2	180-190	1.0
Ethylene Glycol Distearate	STARFOL EGDS	62 av	5	190-200	1.0

STARFOL GMS products comply with FDA requirements for direct food additives.

Hydrofol® Fatty Acids SATURATED	Trademark	Titer °C	Acid Value	Iodine Value	Color Lovibond 5¼" max	Typical Chain Length
Coconut Fatty Acid	HYDROFOL Acid 631	33.5 max	257-267	1.0 max	5Y/0.5R	40% C_{12}
Stearic Acid	HYDROFOL Acid 1880	61-65	195-202	3.0 max	15Y/1.5R	82% C_{18}
	HYDROFOL Acid 1655*	54.5-56	206-213	1.0 max	2Y/0.5R	50% C_{16}
	HYDROFOL Acid 1870	58-61	201-206	1.0 max	5Y/0.5R	65% C_{18}
	HYDROFOL Acid 1855	54.4-56.5	205-212	1.0 max	3Y/0.3R	55% C_{18}
Marine Oil Fatty Acid	HYDROFOL Acid 2022-25	50-53	198-205	4.0 max	25Y/2.5R	25% C_{20} + C_{22}
	HYDROFOL Acid 2022-40	54 min	188-198	3.5 max	10Y/1R	41% C_{20} + C_{22}
Arachidic-Behenic Acid	HYDROFOL Acid 2022-55	58.5-62.5	177-187	5.0 max	25Y/2.5R	56% C_{20} + C_{22}
Behenic Acid	HYDROFOL Acid 2260	68.0-72.5	169-177	2.0 max	15Y/1.5R	61% C_{22}
12-Hydroxystearic Acid	HYDROFOL Acid 1888-OH	73 min	171-181	4.0 max		88% 12-Hydroxy C_{18}
UNSATURATED Tallow Fatty Acid	DISTAL® 42	40-44	203-209	47-56	4 Gard. max	65% C_{18}

***Available in cosmetic grade**

Food Grade Fatty Acids and Glycerides

HYDROFOL Glyceride 1057FG—Hydrogenated tallow triglycerides. Useful where firmer, more uniform material than tallow is needed.
HYDROFOL Acid 1880FG—High stearic acid and high melting point for grinding into powder.
HYDROFOL Acid 1870FG—Tallow-derived stearic of exceptionally light, heat-stable color, low iodine value.

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842600153

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Hydrofol Glycerides	Trademark	Titer °C	Acid Value (max)	Iodine Value	Color Lovibond 5¼" max	Sap Value	FFA max as % Oleic	Typical Chain Length
Hydrogenated Marine Oil	HYDROFOL Glyceride 45	44-47.5	3	20-32	30Y/3.0R	188-195	1.5	38% C_{16}
	HYDROFOL Glyceride 50-51	50-53	3	5 max	30Y/3.0R	188-195	1.5	38% C_{16}
Hydrogenated Vegetable Oil	HYDROFOL Glyceride 150	64-67	4	2 max	25Y/2.5R	188-193	2	88% C_{18}
Hydrogenated Animal Fat	HYDROFOL Glyceride T-57-L	59-62	1	1 max	5Y/0.5R	193-196	0.5	70% C_{18}
Hydrogenated Tallow	HYDROFOL Glyceride T-57-N	57-61	1	1 max	10Y/1R	193-198	0.5	65% C_{18}
	HYDROFOL Glyceride T-57	57-61	14	4 max	50Y/5R	190-197	7	65% C_{18}
Hydrogenated Castor Oil	HYDROFOL Glyceride 200	70 min	4	3 max	40Y/4R	177-182	2	88% 12-Hydroxy C_{18}

Hydrofol Fractionated Fatty Acids	Trademark	Titer °C	Acid Value	Iodine Value	Color Lovibond 5¼" max	Typical Chain Length
Caprylic-Capric Acid	HYDROFOL Acid 0856	6 max	354-364	0.5 max	10Y/1.0R	56% C_8-40% C_{10}
Stripped Coco Acid	HYDROFOL Acid 1255	25-30	252-262	3-10	15Y/1.5R	56% C_{12}
95% Lauric Acid	HYDROFOL Acid 1295	41-44	278-282	0.5 max	5Y/0.5R	95% C_{12}
99% Lauric Acid	HYDROFOL Acid 1299	43-45	278-282	0.5 max	5Y/0.5R	99% C_{12}
95% Myristic Acid	HYDROFOL Acid 1495	52-54	243-248	0.5 max	5Y/0.5R	95% C_{14}
90% Palmitic Acid	HYDROFOL Acid 1690	58-62	215-221	0.5 max	5Y/0.5R	91% C_{16}
95% Stearic Acid	HYDROFOL Acid 1895	67-69	194-200	1.0 max	5Y/0.5R	95% C_{18}

Adol Fatty Alcohols	Trademark	Iodine Value	Hydroxyl Value	Titer °C	Typical Chain Length
Cetyl Alcohols					
National Formulary Grade	ADOL 52 NF	2 max	225-235	47-51*	95% C_{16}
Technical Grade	ADOL 54	2 max	220-230	46-50	70% C_{16}
Synthetic	ADOL 520	1 max	221-235	45-50*	95% C_{16}
Stearyl Alcohols					
U.S.P. Grade	ADOL 61 USP	2 max	200-212	56-60*	97% C_{18}
U.S.P. Grade	ADOL 62 USP	2 max	200-212	56-60*	95% C_{18}
Technical Grade	ADOL 64	2 max	204-216	51-54	68% C_{18}
Cetyl-Stearyl	ADOL 63	2 max	206-218	48-53	65% C_{18}
C_{15}-C_{18} Vicinal Glycol	ADOL 158	5 max	380 min	60 min*	C_{15}-C_{18}
Oleyl Alcohols				Cloud Point °C	
Low Cloud Commercial	ADOL 320	75-85	205-225	19 max	
Commercial	ADOL 330	72-82	205-225	22 max	
Commercial	ADOL 340	60-70	205-225	28 max	
Oleyl-Cetyl	ADOL 42	45-55	210-225	36 max	
High Purity Commercial	ADOL 80	85-95	205-222	13 max	
Cosmetic	ADOL 85	85-95	205-215	10 max	
Cosmetic	ADOL 90	85-95	205-215	5 max	
Isostearyl Alcohol				Cloud Point °C	
Cosmetic	ADOL 66	12 max	180-200	8 max	C_{18}

* Closed tube melting point.

Adogen Fatty Amides	Trademark	Average Molecular Weight	Acid Value (max)	Iodine Value	Color Gardner	Melting Point °C CT
Hydrogenated Tallow Amide	ADOGEN 40	275	6	3 max	7 max	98-103
Erucyl Amide	ADOGEN 58	335	1	72-82	6 max	75-85
Oleyl Amide	ADOGEN 73	272	1	80-92	5 max	72-76

Mining Chemicals

Cationic iron flotation is an area in which Ashland has led the way with new technology. AROSURF® cationic iron flotation reagents provide a breakthrough in upgrading magnetic concentrates or in processing semimagnetic ores.

Other flotation and solvent extraction chemicals offer new opportunities in ore concentration. KELEX® copper extraction with electrowinning obtains 99.9% pure copper without smelting. AROSURF silica flotation reduces silica in ore, diminishes furnace build-up. ADOGEN flotation concentrates ores containing silica, mica, potash and feldspar, aiding in extraction of uranium, tungsten, molybdenum, vanadium, rhenium and chromium.

Processes proven by extensive commercial application. Specific process information available.

Primary Fatty Amines	Trademark	Primary Amine Content (min)	Approx Combining Weight
Arachidyl-Behenyl Amine, distilled	ADOGEN 101D	97	295
Hydrogenated Tallow Amine, technical	ADOGEN 140	95	266
Stearyl Amine, technical	ADOGEN 142	95	281
Tall Oil Amine, technical	ADOGEN 151	92	276
Coco Amine, technical	ADOGEN 160	95	200
Lauryl Amine, distilled	ADOGEN 163D	98	194
Tallow Amine, technical	ADOGEN 170	95	263
Oleyl Amine, technical	ADOGEN 172	95	270
C_{12}-C_{15} Ether Amine	ADOGEN 185	95 (typical)	280

Tertiary Fatty Amines	Trademark	Physical Appearance
Dimethyl Soya Amine	ADOGEN 315D	Pale yellow liquid
Tri Hydrogenated Tallow Amine	ADOGEN 340	White powder
Dimethyl Stearyl Amine	ADOGEN 342D	Pale yellow semisolid
Dimethyl Hydrogenated Tallow Amine	ADOGEN 345D	Water white liquid
Tri Lauryl Amine	ADOGEN 363	Pale yellow liquid
Tri C_8-C_{10} Amine	ADOGEN 364	Pale yellow liquid
Dimethyl Coco Amine	ADOGEN 367D	Pale yellow liquid
Tri C_8-C_{10}-C_{12} Amine	ADOGEN 368	Pale yellow liquid
Dimethyl Tallow Amine	ADOGEN 370D	Pale yellow liquid
Tri Isooctyl Amine	ADOGEN 381	Pale yellow liquid
Tri Isodecyl Amine	ADOGEN 382	Pale yellow liquid
Tri Tridecyl Amine	ADOGEN 383	Pale yellow liquid

Fatty Diamines	Trademark	Iodine Value	Total Amine Value (min)	Color Gardner	Approx Combining Weight
Coco Diamine	ADOGEN 560	12 max	410	8 max	132
Tallow Diamine	ADOGEN 570-S	30-45	325	5 max	165
C_{12}-C_{15} Ether Diamine	ADOGEN 585	—	322 (typical)	1+ (typical)	174

Hair Care Products, Quats		Uses
ADOGEN 432CG	Dialkyl Dimethyl Ammonium Chloride	Creme rinse concentrate – liquid
VARISOFT® SDC	Stearyl Dimethylbenzyl Ammonium Chloride	Softener, hair conditioning creme rinse – paste
VARISOFT E228	Cetyl Trimethyl Ammonium Chloride	Hair softener and conditioner – liquid
AROSURF TA-100	Dimethyl Distearyl Ammonium Chloride	Creme rinse concentrate – powder

Detergent Specialties		Uses
VARSULF™ H88	Sodium Monostearyl Sulfosuccinate	Surfactant and emulsifier for shampoos, skin cleansers, shower gels
VARIFOAM™ RMS SPECIAL VARIFOAM YM SPECIAL	Formulated Surfactant Concentrates	Surfactant for use in shampoos and bubble bath
Carspray #2 Carnauba Spray 200	Formulated Cationic Emulsifiers	Emulsifiers for preparing liquid "wax" systems for automatic car washes.

Amphoteric Surface Active Agents		Uses
VARION® 1017	Coco Amino Sulfonate	Detergent for heavy-duty alkali & acid cleaners
VARION 1084	Tallow Amino Sulfonate	Detergent, highly soluble in concentrated electrolyte, thickening properties for shampoo, hard surface cleaners
VARION CADG	Coco Amido Betaine	Detergent, solubilizer for lauryl sulfate
VARION CDG	Coco Betaine	Foaming agent
VARION SDG	Stearyl Betaine	Detergent and softener for fabric

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Nonionic Surface Active Agents		Uses
AROSURF 66-E2 AROSURF 66-E10 AROSURF 66-E20	Ethoxylated Isostearyl Alcohols	Emulsifier, gelling and coupling agents
AROSURF CL-A1	Alkoxylated Isostearyl Alcohol	Bath oil spreading agent, emulsifier
AROSURF CL-744	Alkoxylated Cetyl-Stearyl Alcohols	Emulsifier, nonionic surfactant
VARONIC® 320	Polyoxyethylene Oleyl Alcohol	Emulsifier, lubricant
AROSURF GMS-E20	Ethoxylated Mono & Diglyceride	Emulsifier for cosmetics
VARAMIDE® A-2	Refined Coconut Diethanolamide	Detergent
VARAMIDE L-1	Lauric Diethanolamide	Detergent, foam stabilizer. Thickener and foam booster for shampoos
VARAMIDE A-7	Oleic Diethanolamide	Detergent
VARAMIDE A-10	Modified Coco Diethanolamide	Detergent for viscous floor cleaners
VARAMIDE A-12		Detergent for high phosphate cleaners
VARAMIDE A-83		Detergent in general purpose cleaners
VARAMIDE A-84		Detergent—general purpose & floor cleaners
VARAMIDE MA-1	Coco Superamide	Detergent, foam stabilizer, thickener and foam booster for dishwashing compounds and shampoos.
VARAMIDE ML-1	Lauric Superamide	Detergent, foam stabilizer, thickener and foam booster
VARAMIDE ML-4	Lauric-Myristic Superamide	Detergent, foam stabilizer for industrial applications
VARONIC 400MO	Polyethylene Glycol 400 Monooleate	Emulsifier used in cosmetics and paint
VARONIC 400MS	Polyethylene Glycol 400 Monostearate	Emulsifier, thickener for emollients, creams and lotions
VARONIC 400DL	Polyethylene Glycol 400 Dilaurate	Emulsifier for cosmetics
VARONIC 1000MS VARONIC 1800MS	Polyethylene Glycol Monostearate Polyethylene Glycol Monostearate	Solubilizers, humectants, surfactants
VARONIC L 202 VARONIC L 205	Ethoxylated Soya Amines	Emulsifier for latex, dyes, oils, antistat, dispersant, dye intermediate
VARONIC K 202 VARONIC K 205 VARONIC K 210 VARONIC K 215	Ethoxylated Coco Amines	Antistat, emulsifier. Dispersant for oils, pigments, sulfur. Dye intermediate
VARONIC T 202 VARONIC T 205 VARONIC T 215	Ethoxylated Tallow Amines	Emulsifier for latex, dyes, oils. Antistat, dispersant, dye intermediate
VARONIC U 202 VARONIC U 205	Ethoxylated Hydrogenated Tallow Amines	Antistat, emulsifier, dispersant, dye intermediate
VAROX™ 375-O	Dimethyl Coco Amine Oxide	Foam booster, detergent
VAROX 743	Bis(2-Hydroxyethyl)Coco Amine Oxide	Foam booster, detergent
VAROX 1770	Coco Amido Propyl Dimethyl Amine Oxide	Foam booster, detergent

Anionic Surface Active Agents		Uses
VARSULF 60L	Triethanolamine Alkylaryl Sulfonate	General liquid detergent and foamer
VARSULF OT	Sodium Dioctyl Sulfosuccinate	Wetting, rewetting, drycleaning detergents, emulsion polymerization
VARIFOS® 2039 VARIFOS 2058 VARIFOS 2611	Free Acids of Complex Organic Phosphate Esters	Detergents, emulsifiers, wetting agents for highly alkaline, heavy-duty cleaners

Imidazoline Surface Active Agents		Uses
VARINE® C	Coco Hydroxyethyl Imidazoline	Emulsifier, shampoo base
VARINE O	Oleic Hydroxyethyl Imidazoline	Emulsifier, corrosion inhibitor

Fabric Softeners, Quats		Uses	% Solids Content	Form
ADOGEN 442	Dimethyl Dihydrogenated Tallow Ammonium Chloride	Fabric Softener Concentrates for use in aerosols, for creme rinse and for softeners used in home and commercial laundries and textile processing. Products with differing activity and custom blends available on request.	75	Paste
VARISOFT 137	Dimethyl Dihydrogenated Tallow Ammonium Methosulfate		90	Paste
VARISOFT 110	Complex Quaternary Sulfate		75	Paste
VARISOFT 222-90	Complex Difatty Quaternary Sulfate		90	Paste
VARISOFT 238-90	Complex Difatty Quaternary Sulfate		90	Paste
VARISOFT 475	Methyl (1) Alkylamidoethyl (2) Alkyl Imidazolinium Methosulfate		78	Liquid
ADOGEN 432	Dialkyl Dimethyl Ammonium Chloride		75	Liquid
AROSURF TA-100	Dimethyl Distearyl Ammonium Chloride		95	Powder

Specialty Quats		Uses	% Quat. Content	Form
VARIQUAT® 60LC	Alkyl Dimethylbenzyl Ammonium Chloride	Swimming pool algicide	50	Liquid
VARIQUAT 50MC	Alkyl Dimethylbenzyl Ammonium Chloride	Germicide and algicide	50	Liquid
VARIQUAT 80MC	Alkyl Dimethylbenzyl Ammonium Chloride	Germicide	80	Liquid
VARIQUAT LC80	Alkyl Dimethylbenzyl Ammonium Chloride	Swimming pool algicide	80	Liquid
VARIQUAT A200	Allyl Trimethyl Ammonium Chloride	Cationic emulsifier	50	Liquid
VARIQUAT B200	Benzyltrimethyl Ammonium Chloride	Dispersant, dye leveller	60	Liquid
ADOGEN 415	Trimethyl Soya Ammonium Chloride	Antistat, emulsifier	50	Liquid
ADOGEN 464	Methyl Tri (C_8-C_{10}) Ammonium Chloride	Solvent extraction of metal	90	Liquid
VARIQUAT C75	Dicoco Imidazoline Quaternary	Emulsifier, filtration aid	75	Liquid
VARIQUAT K75	Dialkyl Imidazoline Quaternary	Emulsifier, filtration aid	75	Liquid
ADOGEN 471	Trimethyl Tallow Ammonium Chloride	Cationic emulsifier, dispersing agent, antistat	50	Liquid
VARIQUAT 638	Ethoxylated Quaternary	Antistat, plating bath foam blanket, emulsifier	75	Liquid
ADOGEN 462	Dimethyl Dicoco Ammonium Chloride	Antistat, emulsifier, flocculating agent	75	Liquid
ADOGEN 436	Dimethyl Dialkyl Ammonium Chloride	Antistat, emulsifier, flocculating agent	68	Liquid

Admex Vinyl Plasticizers		Uses	Special Qualities
Epoxidized Soybean Oil	ADMEX 710 ADMEX 711	Plasticizer/stabilizer for PVC, food wrappings, beverage transfer tubing, floor tile, baby & nursery goods, nitro-cellulose & butyrate coatings. Reactive intermediate.	FDA regulated & MIB approved. Heat & light stabilizer. Electronic heat sealable. Polymeric-type extraction.
Epoxidized Tallate Ester	ADMEX 746	Calendered film & sheeting. Plasticizer/stabilizer for all PVC compounds. Plastisol viscosity depressant.	Economical. Compatible. Low temp. flexibility. Heat & light stabilizer.
Epoxidized Linseed Oil	ADMEX ELO	Food wrap, beverage transfer tubing, PVC, film, plasticizer/stabilizer for PVC compounds.	FDA regulated. High oxirane. Heat & light stabilizer. Compatible.
Triethylene glycol di-caprate/caprylate	ADMEX 345	Nitrile rubber formulations.	Good low temp flexibility. Maximum retention of physical and permanence properties.
Low-Viscosity Polyester	ADMEX 433	Foam, extrusion, calendered films, coated fabric.	Solvent resistant. Compatible in high humidity.
Low-Viscosity Polyester	ADMEX 515	Calendered & coated fabric. Vinyl foam. Plastisols. Organosols, pigment grinding. Wire coating.	Low cost. Permanence. Low temp flexibility.
Low-Viscosity Polyester	ADMEX 522	Extrusion, calendered film & sheet, wire coating, organosols, plastisols, flooring.	Light & heat stability. Low cost permanence & capability.
Primary Polyester	ADMEX 525	Coating fabrics, paper coatings, pigment dispersions, plastisols, organosols, tapes, vinyl foams, extruded profiles.	Low viscosity, good low temp flexibility, excellent compatibility, good pigment wetting, light color, good nonmigrating properties.
General Purpose Polyester	ADMEX 529	Calendered & coated fabric, wire coatings, flooring.	Resists rubber migration. Low mineral oil & hexane extraction.
High Mol Wt Ester	ADMEX 752	Upholstery sheeting, coated fabric, headliner stock. Side panel trim. Armrest fabric, crash-pad molding.	Excellent "fog" resistance. Low temp flexibility. Low viscosity.
High Mol Wt Polyester	ADMEX 760	Pressure-sensitive tape. Electrical sleeving. Organosols. Vinyl solution coatings. Drycleanable film.	Unique permanence, electrical properties, abrasion & perc. resistance.
Medium Mol Wt Polyester	ADMEX 761	105°C wire coating. Electrical tape & sleeving. Tape & mattress covers.	Fine electrical properties. Permanence & economy.
Medium Mol Wt Polyester	ADMEX 770	Refrigerator gasket, baby pants, nursery goods, high-clarity film & sheeting.	Humidity-spew, polystyrene-craze & rubber-migration resistance. Economy.
Medium Mol Wt Polyester	ADMEX 775	Refrigerator and freezer gaskets, coated fabrics, saturated paper coatings, infant wear, and tapes.	Light color, low odor, rapid fluxing and good resistance to styrene fatigue.

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CAO® Antioxidants

CAO-1 and 3: 2,6-ditertiary-butyl-p-cresol (BHT)

Direct additive for animal, vegetable and mineral oils, fats and greases — retards oxidative deterioration. Antioxidant for rubber elastomers, polymerics. Stabilizer for petroleum products, waxes, insecticides. CAO-3 meets FDA requirements for food additives.

CAO-4 and 6: 2,2′-thiobis (4-methyl-6-tertiary-butyl-phenol)

Antioxidant and preservative for rubber, latex compounds, high polymers, adhesives, waxes, certain fats and oils, lubricants. For high temperature and electrical requirements. CAO-6 is high-purity grade.

CAO-5 and 14: 2,2′-methylene-bis (4-methyl-6-tertiary-butyl-phenol)

Effective antioxidant for same list of materials as CAO-4 with special recommendation for neoprene, cis-polybutadiene, and polyoxymethylenes. Meets FDA requirements for use in adhesives and rubber. CAO-14 is high-purity grade.

CAO-30: 1,1′-thiobis (2-naphthol)

High-temperature-resistant antioxidant for polyolefins and drying oils.

CAO-42: Hindered phenolic antioxidant/stabilizer, 100% active liquid, for use in petroleum products.

Asphalt Emulsifiers	Uses
AROSURF AA-22	Cationic, used in mixing grade emulsions.
AROSURF AA-23	Cationic, diamine type for rapid-set & mixing-grade emulsions.
AROSURF AA-54	Liquid, cationic, modified diamine type for rapid-set & mixing-grade emulsions.
AROSURF AA-57	Cationic, primarily for slow-set emulsions.

Fine Chemicals

Triphenylsulfonium Chloride
- Triphenylsulfonium Chloride (50% Aqueous Solution)
- Triphenylsulfonium Chloride (50% Propylene Glycol Solution)

8-Hydroxyquinolines
- 8-Hydroxyquinoline Base, Tech.
- 8-Hydroxyquinoline Base, Pure
- 8-Hydroxyquinoline Sulfate
- Copper-8-Quinolinolate
- 5-Chloro-8-Hydroxyquinoline
- 5,7-Dichloro-8-Hydroxyquinoline
- 8-Hydroxyquinoline-5-Sulfonic Acid
- 8-Quinolinol Benzoate
- 8-Quinolinol Citrate

Nitration Products
- 3,5-Dinitrobenzoic Acid
- 5-Nitroisophthalic Acid

Hair Dye Intermediates
- 2-Nitro-p-Phenylenediamine
- 4-Nitro-o-Phenylenediamine
- 2,5-Toluenediamine Sulfate
- 2,4-Diaminoanisole Sulfate
- 2,5-Diaminoanisole Sulfate
- 2-Nitro-p-Amino Phenol

Thiophenes
- 2-Acetothiophene
- 2-Chlorothiophene
- 2-Bromothiophene
- 2,5-Dibromothiophene
- 2,5-Dichlorothiophene

Carbamyl Chlorides
- Diethyl Carbamyl Chloride
- Dimethyl Carbamyl Chloride
- Diphenyl Carbamyl Chloride

Miscellaneous
- Ammonium Adipate
- Ammonium Benzoate
- Cyclopentanone
- Diethylamine Hydrochloride
- Diphenylacetonitrile
- Diphenyl Carbonate
- Ethyl Bromoacetate
- 6-Methoxytetralone-1
- Monochloroacetone
- 2-Phenoxymethylbenzoic Acid
- Phthalide
- Tetrahydromethyl Cyclopentadiene Dimer

Custom Production

Experience in the manufacture of fine synthetic organic chemicals offers pharmaceutical, cosmetic and chemical makers a ready source for chemicals made to their own specifications. Ashland is called on by an increasing number of major brand suppliers for custom-made products. Because our equipment is ready to go, highly generalized, away from prying eyes, and adaptable to almost any need, there are advantages to letting us do your custom work.

Ashland is staffed to deliver — on time — according to agreed terms and specifications.

We have the know-how and disposal systems to produce chemicals others can't. If you have a product too toxic, odorous or otherwise unsuitable for your own plant, call us.

CARBON BLACK & SYNTHETIC RUBBER DIVISION

One of the world's leading producers of furnace carbon black for rubber and other industries, Ashland Chemical maintains continuing research and technical service programs aimed at better understanding and improving carbon black performance. New grades of carbon black are continually being studied to enhance elastomer characteristics or provide processing and economic benefits for the compounder.

Ashland also produces a versatile selection of styrene-butadiene rubber in masterbatched form. Carbon black, extending oils and stabilizers are premixed with the polymer during manufacture, to provide compounds suitable for many finishing applications as well as being excellent bases for further compounding to specific requirements. The company is deeply involved in international marketing with carbon black plants throughout the world.

Products

UNITED® Carbon Black

A full range of rubber grade furnace blacks for MRG, tire and other applications.

BAYTOWN® Styrene-Butadiene Rubber
Black Masterbatch
Oil-Black Masterbatch

PETROCHEMICALS DIVISION

Ashland Chemical operations are based on a long-standing position as a producer and refiner of petroleum. The petrochemical product line includes:

Benzene	Aliphatic Solvents
Toluene	Aromatic Solvents
Xylene	Secondary Plasticizers
Cumene	Sulfur
Naphthalene	Exempt Aliphatics
Maleic Anhydride	

Refineries specializing in petrochemicals handle complex fractionation processes:

Hydrodealkylation (Hydeal)

Sulfolane Extraction

Superfractionation (Aliphatics)

The Hydeal process was developed and patented by the company's research personnel. Continuing emphasis on research, product development and diversification has helped Ashland maintain the pace of our rapidly-changing chemical industry, and earn recognition as a major petrochemical supplier.

FOUNDRY PRODUCTS DIVISION

Core and Mold Binders

Cold Box ISOCURE® binders – fast, catalyzed resin cures in seconds. Ashland Process employs quick-curing ISOCURE binders in automated, closed system machine operation or flexible, individually-controlled processes.

No-Bake LINO-CURE®, PEP SET® and CHEM-REZ® binder systems cure without heat, operate on controlled work and strip time according to foundry needs.

Hot-Box binders in the CHEM-REZ line are heat cured. Both furan and phenolic types.

Inorganic binders, both new INOSET™ and silicate no-bakes, have clean air advantages which mean an expanding future in ecology-controlled foundries.

Core oils sold under famous LINOIL® brand are used to make oven-baked cores.

Core and Mold Coatings

Zircon, ceramic and graphite core and mold coatings are sold under VELVALITE®, VELVAPLAST®, VELVASEAL®, VELVA DRI®, and VELVAWASH® trademarks either as liquid, paste or powdered products.

Exothermics

Exothermic and insulating sleeves, toppings and moldable exothermics control metal solidification of castings to prevent shrinkage and casting failures.

Facings, Partings, Release Agents

ZIP-SLIP® partings and release agents promote efficiency, particularly with the newer fast systems like cold box and PEP SET no-bake. Dry or liquid core paste, core mud and mold seal aid the completion of molds and prevent pouring problems.

Seacoal

CROWN HILL® brand seacoal in sand mixes improves casting surfaces, prevents oxidation. Standard, granular and air-floated grades.

Bentonite

GREEN BOND® western bentonite (sodium) adds hot strength to molding sand mixes. Calcium based southern bentonite is used for green strength when hot and dry strength can be low.

Foundry Specialties

Sand Stabilizers	Catalysts
Talc	Accelerators
Pitch	Zircon Sand & Flour

RESINS & PLASTICS DIVISION

An extremely basic position, beginning with production of many of its own raw materials, makes Ashland a leader in supplying resins to all major industrial markets. Continuing development programs keep Ashland well ahead of industry change.

Ashland was a pacemaker in supplying the coatings industry with a complete family of AROLON® resins for water-base industrials. DECLON® thermosetting polyester resins can provide to the industrial finisher a powder coating system with outstanding thin-film durability — indoors or out. Also available is a complete line of resins in exempt solvents for trade-sale and industrial coatings to meet current pollution guidelines (August 1971, Los Angeles County Rule 66).

Other Ashland innovations include the first continuous production wet and premix molding polyester resins for consistent quality and greater economy. And a complete line of resins for the rubber industry, including preformed, self-cross-linking resorcinol-formaldehyde resins for highly simplified RFL-dip compositions or dry rubber bonding agents.

But Ashland's leadership in resins is based on more than its ability to meet new industry trends. Its extensive resources and massive line of resins for everyday industrial applications make Ashland a logical, dependable source for all your resin needs.

Resins for Paint, Lacquer and Powder Coatings

Use	Resin Type	Trademark	Special Qualities
Water Systems	Copolymer Alkyd Acrylic Polyester	AROLON®	Versatile group which can be used to formulate a wide variety of coatings to meet the most stringent ecology conditions. May be dipped, sprayed, flow coated, rolled, electrostatically applied. Glosses or flats. Air dried or bake.
Coil Coatings	Polyester Alkyd	AROPLAZ® AROLON®	Air-dry and baking systems – some silicone – modified for high exterior durability.
Tile-Like Coatings	Polyester-Epoxy	AROFLINT®	Chemical and stain-resistant, easy maintenance coatings for smooth tile-like surface on building blocks, bricks, cement or wood.
Seamless Floorings	Urethane	AROTHANE®	Hard, tough films with good chemical and solvent resistance protect underlying system with glassy, durable finish.
Flat Wall Coatings	Alkyd	AROFLAT®	Oxidizing resins have a broad range of uses in flats, primers and sealers. Variety of types offer unlimited possibilities for color, penetration, surface and performance.
Powder Coatings	Polyester	DECLON®	Thermosetting resins for powder coatings with interior/exterior functional and decorative application. Superior thin-film durability, exceptional weathering and excellent flow, gloss and nonyellowing characteristics.
Lacquer	Alkyd Hard Resins	AROPLAZ AROCHEM®	Specialized resins with well-known performance characteristics let you select gloss, flexibility, durability, flow, color retention, drying rate, viscosity and adherence.
Weather-Resistant Finishes	Alkyd & Polyester Acrylic Urethane Polyester-Epoxy	AROPLAZ AROSET® AROTHANE AROFLINT	Surface appearance, type of wear, and pigmentation requirements determine which of a large group of resins to specify for outdoor vehicles, signs, equipment, decks, marine uses.
Metal Decorating	Alkyd Polyester Phenolic	AROLON AROPLAZ AROFENE®	Versatile resins for interior and exterior can and closure coatings offer excellent flexibility-adhesion relationship and a range of stain and chemical resistance characteristics.
Federal & MIL Specifications	Numerous	All Brands	Many U. S. specifications for finishes can be met with Ashland Chemical products in specified formulations.

Resins for Ink

Printing Inks	Water Dispersible Alkyd Phenolic	AROLON AROPLAZ AROCHEM	Wetting properties, tinting, flow, and drying speed produce inks with good gloss for quality printing. Water and alkali resistant.
	Alcohol-Soluble Resins	AROCHEM	Light-fast, oil-resistant inks for printing aluminum foil, kraft, and board.
	Maleic	AROCHEM	Steam-set, flexographic, lithographic, letterpress, aniline, gravure, and vinyl inks.

Polyesters for Molding and Casting

Press Molding Hand Lay-up Spray-up Filament Winding Pultrusion	Polyester	AROPOL™	General purpose and isophthalic resins for a variety of applications. Rigid, flexible, high tensile and many other resins. Continuous polyester production results in preform and premix resins with consistent uniformity and quality.
Nonreinforced Casting Resins	Polyester	AROPOL	Resins for furniture, clear castings, marble, buttons and other nonreinforced castings.
Decorative Art and Wall Decor	Polyester	AROPOL WEP®	Rapid-curing, high-impact resin cures at room temperature using 50 to 60% water to hard, paintable surface.

Resins for Pressure-Sensitive Adhesives

Use	Resin Type	Trademark	Special Qualities
Adhesive Base	Acrylic	AROSET	Crosslinking and thermoplastic resins with outstanding clarity and UV and oxidation resistance.
Tackifier	Rosin Ester	AROCHEM	Compounding resin for pressure-sensitive adhesives.
Compounding Agent	Phenolic	AROFENE	Improves cohesive strength for applications requiring high shear.

Resins for Rubber Compounding and Adhesives

Natural & Synthetic Rubber Tires Cord Dips Neoprene Cement Nitrile Adhesives	Phenolic Resorcinol	AROFENE	Curing, stiffening and adhesive agents, tackifiers and bonding agents for many elastomers. Enhance cord/rubber adhesion. Self-curing in compound bonding agents. Can form a broad spectrum of adhesives with desired tack, specific adhesion, viscosity, strength, water and solvent resistance and curing times.

Resins for Abrasive and Friction Use

Abrasive Belts and Discs Grinding Wheels Transmission Rings Disc Brakes Brake Blocks Brake Linings Clutch Facings	Phenolic	AROFENE	Desired toughness and wear resistance, heat resistance, flow, strength, and stability make these specialty resins particularly effective in specific applications.

Resins for Paper

Photoconductive	Acrylic and Alkyd Copolymers	AROTAP®	Offer excellent charge retention, low dye demand and high coating speeds. Also utilized in offset masters requiring high wear properties.
Impregnating	Phenolic	AROTAP	Add strength, chemical and heat resistance, flame proofing, and other qualities to paper.

Resins for Bonding Wood

Furniture Laminated Wood Processed Board	Resorcinol Phenolic	AROFENE	Many specifications met using Ashland resins. Highly specialized for applications in wood bonding and laminating.

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Data presented are typical values.

Aliphatic Solvents

	API Gravity @ 60° F	Dist. Range °F		Flash Pt °F TCC	KB Value
		IBP	DP		
n-Pentane	92.7	95	102	–50	25
Rubber Solvent	71.0	115	278	–40	33
HEXASOL™	69.0	150	190	–16	33
Hexane	78.5	150	157	–10	29
Heptane	69.0	190	210	20	31
LACOLENE™	61.0	195	224	22	36
Super LACOLENE™	56.2	195	230	22	44
Hi Initial VM & P	56.0	245	280	52	36
Hi Flash VM & P	50.7	285	320	90	36
KWIK-DRI™	49.3	308	355	101	36
Mineral Spirits	48.3	310	400	105	36
140 Solvent	46.5	368	410	141	37
Odorless Mineral Spirits	54.0	355	400	128	28
Rule 66 Mineral Spirits (7%)	49.2	315	390	105	35
Odorless Solvent LR	50.5	360	580	136	26
Low Odor Base Solvent	45.0	370	500	145	30
460 L Naphtha	49.2	380	450	157	30
Mineral Seal Oil	35.5	490	610	270*	22

*PM

Aromatic Solvents

Benzene	28.7	176	177	5	110
Toluene	30.6	230	232	45	105
Ethylbenzene	31.0	276	278	59	96
Xylene	31.1	280	288	81	98
HI-SOL® 10	30.5	315	350	110	90
HI-SOL 15	28.0	360	400	140	90
HI-SOL 30	35.7	280	370	80	78
HI-SOL 85	31.5	310	386	103	88
HI-SOL 70	33.6	325	395	112	70
HI-SOL 3	32.5	347	425	141	71
HI-SOL 4-1	15.4	400	490	170	100
HI-SOL 4-2	13.5	420	520	190	102
HI-SOL 100K	28.2	310	450	105	96
HI-SOL 4-2K	20.5	400	550	195*	112
HI-SOL 4-3	11.1	450	545	250*	104
Custom products and special blends available					

*COC

Chlorinated Solvents

	Specific Gravity 20°/20°C	Dist. Range °F		Flash Pt. °F TOC
		IBP	DP	
Methylene Chloride	1.366	103	105	None
Carbon Tetrachloride	1.584	169	171	None
Ethylene Dichloride	1.255	181	183	70
1,1,1-Trichloroethane	1.316	162	190	None
Trichlorethylene	1.455	187	190	None
Perchlorethylene	1.627	247	251	None
Monochlorobenzene	1.113	268	271	84*
Orthodichlorobenzene	1.313	355	361	170
Chloroform	1.485	140	143	None

*TCC

Ethers & Oxides

Ethyl Ether	0.716	94	95	–40
1,4-Dioxane	1.034	210	217	65
Tetrahydrofuran	0.887	151	152	6*

*TCC

Plasticizers

	Specific Gravity 20°/20° C	lb/gal 20 °C	Visc. CPS 20° C
Phosphate Plasticizers			
Tri (butoxyethyl) Phosphate	1.017	8.50	12.2
Tributyl Phosphate	0.978	8.14	3.7
Tricresyl Phosphate	1.173	9.70	80
Triaryl Phosphate	1.145	9.54	90
Cresyl Diphenyl Phosphate	1.190	9.96	65
Phthalate Plasticizers			
Di (2-ethylhexy) Phthalate (DOP)	0.986	8.21	80
Dibutyl Phthalate (DBP)	1.049	8.74	20
Butyl Octyl Phthalate	0.993	8.27	60
Diisodecyl Phthalate (DIDP)	0.966	8.05	108
Ditridecyl Phthalate	0.950	7.97	225
Diallyl Phthalate	1.117*	9.29	9*
Di (methoxyethyl) Phthalate (DMEP)	1.171	9.75	53
Adipate, Azelate & Fatty Acid Plasticizers			
Di (2-ethylhexyl) Adipate (DOA)	0.927	7.71	13.5
Butyl Stearate	0.857	7.15	7.9*
Epoxidized Soybean Oil	0.994	8.25*	445*
Epoxidized Tallate Ester	0.920	7.65*	45.7*
Epoxidized Linseed Oil	1.020	8.52*	815*

*at 25°C

Glycol Ethers

	Specific Gravity 20°/20° C	Dist. Range °F		Flash Pt °F TOC
		IBP	DP	
Ethylene Glycol Monomethyl Ether	0.966	253	257	110
Ehylene Glycol Monoethyl Ether	0.931	273	277	120
Ethylene Glycol Monobutyl Ether	0.903	336	343	157
Diethylene Glycol Monoethyl Ether	1.027	374	401	205
Diethylene Glycol Monomethyl Ether	1.0211	378	385	200
Diethylene Glycol Monobutyl Ether	0.9536	441	453	240
Propylene Glycol Monomethyl Ether	0.923	246	264	97
Dipropylene Glycol Monomethyl Ether	0.961	369	379	169
Tripropylene Glycol Monomethyl Ether	0.972	457	484	250

Polyethylene Glycols

	Specific Gravity 20°/20° C	Mol. Wt.	Freeze Range °C	Flash Pt. °C TOC	Visc. CPS at 212° F
Polyethylene Glycol 200	1.126	190-210	Supercools	340	4.3
Polyethylene Glycol 300	1.125	285-315	−15 to −8	385	5.8
Polyethylene Glycol 400	1.128	380-420	4 to 8	435	7.3
Polyethylene Glycol 600	1.128	570-630	20 to 25	475	10.5
Polyethylene Glycol 1000	1.101	950-1050	36.5 to 39.5	510	17.4
Polyethylene Glycol 1500	1.151	500-600	38 to 41	430	13-18
Polyethylene Glycol 1540	1.091	1300-1600	43 to 46	510	25-32
Polyethylene Glycol 4000	1.204	3000-3700	53 to 56	515	75-85
Polyethylene Glycol 6000	—	6000-7500	60 to 63	520	700-900

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Glycols

	Specific Gravity 20°/20° C	Dist. Range °F		Flash Pt °F COC
		IBP	DP	
Ethylene Glycol	1.1155	379	396	240
Diethylene Glycol	1.1184	468	482	290
Dipropylene Glycol	1.0232	442	457	280
Triethylene Glycol	1.1255	532	572	330
Propylene Glycol USP/IND	1.0381	367	374	225
Hexylene Glycol	0.9234	385	390	215
Aircraft De-icing Fluid	1.10	pH – 50% 9-9.5	Corrosion FE AL Mg. 0 0 0	245

Alcohols

	Specific Gravity 20°/20° C	Dist. Range °F		Flash Pt °F TOC
		IBP	DP	
Ethyl Alcohol industrially denatured. All commercial formulas.				
Methanol	0.7924	147	149	58
Isopropanol Anhydrous	0.7861	180	182	63
Isopropanol 91%	0.8176	176	178	71
Propanol	0.8060	205	208	81
2-Butanol	0.8090	206	216	74
Isobutanol	0.8030	225	228	95
Butanol	0.8108	241	245	97
2-Methyl Butanol	0.818	259	282	110*
Methyl Amyl Alcohol	0.8083	266	271	106
Primary Amyl Alcohol	0.8134	262	282	123
2-Ethylhexanol	0.834	360	367	164*
2-Ethylisohexanol	0.830	343	358	170
Cyclohexanol	0.948 @ 25°C	320	325	164*
Furfuryl Alcohol	1.135	338	—	149*
Tetrahydrofurfuryl Alcohol	1.054	352	—	183
TEXANOL [1]	0.950	356	360	248

[1]Eastman

*TCC

Esters

Ethyl Acetate 99%	0.902	169	172	31
Ethyl Acetate 85-88%	0.8860	163	176	23
Isopropyl Acetate 99%	0.8730	187	194	62
n-Propyl Acetate	0.8880	210	217	65
Isobutyl Acetate	0.8693	234	246	88
2-Butyl Acetate	0.863	219	239	68
n-Butyl Acetate 90%	0.8750	244	262	90
Primary Amyl Acetate	0.8752	284	302	106
Ethylene Glycol Monomethyl Ether Acetate	1.005	284	297	135
Ethylene Glycol Monoethyl Ether Acetate	0.9724	302	320	136
Ethylene Glycol Monobutyl Ether Acetate	0.9424	367	381	190
2-Ethylhexyl Acetate	0.873	378	401	190
Isobutyl Isobutyrate	0.855	291	304	111
Diethylene Glycol Monoethyl Ether Acetate	1.010	417	430	235

Miscellaneous

Glycerine
Surface Active Agents
Chelating Agents
Dimethyl Formamide (DMF)
Antimicrobial Agents
Methylcellulose
Hydroxypropyl Methylcellulose
Dimethylacetamide (DMAC)
Phenol
Acetic Anhydride
FREON[1] Cleaning Agents
Absorbents
Chlorinated Paraffins
Clay-Kaolin
Furfural
Formaldehyde
NiPar[2] S-30 (formerly 2-Nitropropane)
Nitromethane Racing Fuel

[1]DUPONT
[2]COMMERCIAL SOLVENTS

Ketones

	Specific Gravity 20°/20° C	Dist. Range °F		Flash Pt °F TOC
		IBP	DP	
Acetone	0.7907	131	133	4
Methyl Ethyl Ketone	0.8006	172	176	22
Methyl Isobutyl Ketone	0.8024	237	243	74
Diisobutyl Ketone	0.8076	325	343	120
Methyl Isoamyl Ketone	0.8164	286	298	106
Diacetone Alcohol A/F	0.9406	275	342	142
Isophorone	0.923	410	424	205
Methyl Heptyl Ketone	0.831	360	381	160
Methyl Butyl Ketone	0.812	257	262	83
Cyclohexanone	0.946 @ 25°C	309	315	130

Amines

Monoethanolamine	1.0179	331	345	200
Diethanolamine	1.0919	30° C / 20° C	Decom-poses	280
Triethanolamine	1.1258	675	685	375
Morpholine	1.0020	259	266	100
Diethylenetriamine	0.955	383	419	215
Diisopropylamine	0.718	181	184	21
Isopropylamine	0.689	86	93	below 0
Diethylamine	0.7079	129	140	below 0
Triethylamine	0.729	185	196	20
Monoisopropanolamine	0.9619	316	329	165

Acids & Inorganic Chemicals

Acids
Acetic
Battery
Benzoic
Boric
Chromic
Citric
Cresylic
Fluoboric
Formic
Fumaric
Gluconic
Hydrochloric
Hydrofluoric
Hydroxyacetic
Lactic
Muriatic
Nitric
Oxalic
Phosphoric
Propionic
Sulfamic
Sulfuric
Tannic

Alkalis
Caustic potash
Caustic soda
Soda ash
Alum (aluminum sulfate)
Ammonia, anhydr.
Ammonia, aqua
Ammonium
alum
bicarbonate
bifluoride
chloride
hydroxide
persulfate
phosphate (di)
phosphate (mono)
sulfate
Barium
carbonate
chloride
Borax
Calcium
carbonate
chloride
hypochlorite
Caramel colors
Chelating agents
Chlorine
Colloidal-silica
Copper
carbonate
cyanide
sulfate
Epsom salts
Ferric
ammonium oxalate
chloride
sulfate
Ferrous sulfate
Filter aids
High purity inorganics
Hydrogen peroxide
Lead fluoborate
Lime
Lithium carbonate
Lithium chloride
Magnesium
carbonate
chloride
sulfate
Nickel
acetate
carbonate
chloride
fluoborate
sulfamate, conc.
sulfate
Oil absorbents
Paradichlorobenzene
Potassium
bichromate
carbonate
chloride
citrate
copper cyanide
cyanide
fluoride
permanganate
persulfate
phosphate, di
phosphate, tri
pyrophosphate
silicate
stannate
sodium tartrate
tripolyphosphate
Reagent chemicals
Rochelle salts
Silicate of soda
Sodium
acetate
acid pyrophosphate
aluminate
arsenite
benzoate
bicarbonate
bichromate
bifluoride
bisulfate
bisulfite
borate
carbonate
chlorate
chloride
chromate
citrate
copper cyanide
cyanide
fluoride
formate
gluconate
hexametaphosphate
hydrosulfite
hypochlorite
hypophosphite
metasilicate
nitrate
nitrite
orthosilicate
perborate
phosphate, di
phosphate, mono
phosphate, tri
pyrophosphate
sesquicarbonate
silicate
silicofluoride
stannate
sulfate
sulfhydrate
sulfide
sulfite
tetrasulfide
thiosulfate
tripolyphosphate
Sorbitol
Sulfur
Sulfur dioxide
Tin fluoborate
Urea
Zinc
ammonium chloride
chloride
cyanide
hydrosulfite
sulfate

Metal Finishing Products

Chemical Polishing Solutions
Electropolishing Solutions
Metal Cleaners & Strippers
Plating Brighteners
Electroplating Processes

Conversion Coatings
Etchants
Descalers
Zincate salts
Processing Equipment

Anodes
brass
cadmium
copper
lead
nickel
tin
tin/lead
zinc

Important: What is said in this booklet is offered for your consideration, investigation, and verification, and is not to be taken as a warranty or representation of results. Nothing in this booklet is to be understood as permission or recommendation to practice a patented invention without a license. Ashland generally identifies products cleared for use in or with food, drugs or cosmetics; safety and legality of using products not so identified requires your independent appraisal.

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ASHLAND CHEMICAL COMPANY SALES OFFICES

CHEMICAL PRODUCTS DIVISION

Calif.	Los Angeles 90040	6608 E. 26th St.	(213) 723-4711
	Oakland 94604	1401 Middle Harbor Rd.	(415) 832-3882
Ga.	Atlanta 30340	4460 Northeast Expwy.	(404) 448-7010
ILL.	Chicago 60176	4333 Transworld Rd.	(312) 671-5690
Mich.	Southfield 48075	18800 W. Ten Mile Rd.	(313) 559-1410
Minn.	St. Paul Park 55071	5 West Broadway	(612) 459-6657
Mo.	Kansas City 64105	Commerce Tower Bldg.	(816) 221-7177
N. J.	Englewood Cliffs 07632	580 Sylvan Ave.	(201) 568-3023
Ohio	Columbus 43017	5200 Blazer Pkwy. (Dublin)	(614) 889-4191
Texas	Houston 77002	909 Fannin St.	(713) 654-3333

RESINS AND PLASTICS DIVISION

Calif.	Los Angeles 90040	6608 E. 26th St.	(213) 723-4711
Ga.	Atlanta 30340	4460 Northeast Expwy.	(404) 448-7010
ILL.	Chicago 60176	4333 Transworld Rd.	(312) 671-5690
Mich.	Southfield 48075	18800 W. Ten Mile Rd.	(313) 559-1410
Minn.	St. Paul Park 55071	5 West Broadway	(612) 459-6657
Mo.	Kansas City 64105	Commerce Tower Bldg.	(816) 221-7177
N. J.	Englewood Cliffs 07632	580 Sylvan Ave.	(201) 568-3023
Ohio	Columbus 43017	5200 Blazer Pkwy. (Dublin)	(614) 889-4191
Texas	Houston 77002	909 Fannin St.	(713) 654-3333

CARBON BLACK & SYNTHETIC RUBBER DIVISION

Calif.	Arcadia 91006	630 W. Duarte Rd.	(213) 681-1016
Ga.	Atlanta 30340	4460 Northeast Expwy.	(404) 448-7010
ILL.	Chicago 60176	4333 Transworld Rd.	(312) 671-5690
N. J.	Englewood Cliffs 07632	580 Sylvan Ave.	(201) 568-3023
Ohio	Akron 44308	308 Akron Savings Bldg.	(216) 376-8128
R. I.	Providence 02906	141 Wayland Ave.	(401) 331-6633
Texas	Houston 77002	909 Fannin St.	(713) 654-3333

FOREIGN AFFILIATES

Australia	Altona, Australian Carbon Black Pty. Ltd.
France	St. Cloud, Ashland Chemical France S. A.
Germany	Speyer, Ashland Chemical Company, Speyer Branch
India	Bombay, United Carbon India, Ltd.
Spain	Madrid, Espana Ashland Chemical S. A.
Venezuela	Valencia, United Carbon de Venezuela C.A.
Wales	Swansea, United Carbon Black Ltd.

FOUNDRY PRODUCTS DIVISION

Calif.	Los Angeles 90040	6608 E. 26th St.	(213) 723-4711
ILL.	Chicago 60176	4333 Transworld Rd.	(312) 671-5690
Mich.	Southfield 48075	18800 W. Ten Mile Rd.	(313) 559-1410
Minn.	St. Paul Park 55071	5 West Broadway	(612) 459-6657
Mo.	St. Louis 63111	7710 Polk St.	(314) 638-3082
N. Y.	Buffalo 14222	545 Elmwood Ave.	(716) 882-5030
Ohio	Columbus 43017	5200 Blazer Pkwy. (Dublin)	(614) 889-4191

INDUSTRIAL CHEMICALS & SOLVENTS DIV.

Ala.	Birmingham 35234	3300 Ball St.	(205) 841-6451
	Mobile 36607	701 Western Dr.	(205) 471-3404
Calif.	Santa Fe Springs 90670	10505 S. Painter Ave.	(213) 685-9333
	Newark 94560	8600 Enterprise Dr.	(415) 796-9333
Fla.	Jacksonville 32205	1645 N. McDuff Ave.	(904) 387-5531
	No. Miami Beach 33162	200 N. E. 181st St.	(305) 652-4940
	Orlando 32809	1929 Directors Row	(305) 855-4155
	Tampa 33614	5125 W. Hanna Ave.	(813) 884-1468
Ga.	Atlanta 30340	4460 N. E. Expressway	(404) 448-7010
	Columbus 31901	715 6th St.	(404) 327-3669
	Savannah 31405	Savannah Ind. Pk.	(912) 234-5186
ILL.	Chicago 60176	4333 Transworld Rd.	(312) 671-5690
	Argenta 62501	Elm St.	(217) 795-4911
Ind.	Indianapolis 46226	8315 E. 33rd St.	(317) 897-1770
	So. Bend 46613	1817 W. Indiana Ave.	(219) 289-6316
Ka.	Kansas City 66106	5420 Speaker Rd.	(913) 371-0740
Ky.	Louisville 40211	4185 Algonquin Pkwy.	(502) 778-7322
La.	Baton Rouge 70805	11109 S. Choctaw Dr.	(504) 275-7011
	New Orleans 70058	3540 River Rd. (Harvey)	(504) 347-1491
	Shreveport 71107	1315 Airport Dr.	(318) 221-0681
Mass.	Westfield 01085	Westfield Industrial Pk.	(413) 568-8669
Mich.	Detroit 48211	8930 Foster Ave.	(313) 571-5000
	Lansing 48915	1800 Glenrose Ave.	(517) 372-4165
Minn.	Minneapolis 55418	2900 Central Ave. N.E.	(612) 781-3181
Miss.	Jackson 39209	455 Industrial Dr.	(601) 355-8381
Mo.	St. Louis 63111	7710 Polk St.	(314) 638-7400
N. J.	Newark 07105	221 Foundry St.	(201) 344-3333
N. Y.	Binghamton 13902	3 Broad St.	(607) 723-5455
	Buffalo 14150	3701 River Rd.	(716) 873-2446
	Johnstown 12095	400 N. Perry St.	(518) 762-3173
	Rensselaer 12144	South St.	(518) 465-7531
	Syracuse 13206	Midler Pk. & Boxwood Ln.	(315) 463-8669
N. C.	Charlotte 28208	3930 Glenwood Dr.	(704) 392-2121
	Greensboro 27407	2802 Patterson St.	(919) 299-1101
	Raleigh 27601	1415 S. Bloodworth St.	(919) 828-0615
Ohio	Akron 44312	2699 Mogadore Rd.	(216) 733-7926
	Cincinnati 45217	Murray Rd. & Big 4 R.R.	(513) 242-2300
	Cleveland 44125	9450 Midwest Ave.	(216) 587-2230
	Columbus 43228	3849 Fisher Rd.	(614) 276-6143
	Dayton 45439	2854 Springboro Pike	(513) 298-5256
Okla.	Okla. City 73119	4300 S. W. 36th St.	(405) 685-5586
	Tulsa 74112	3535 W. 21st St.	(918) 587-0168
Pa.	Easton 18042	Hellertown Rd.	(215) 258-9135
	Pittsburgh 15042	150 Fourth Ave. (Freedom)	(412) 774-2020
S. C.	Columbia 29201	916 Rosewood Dr.	(803) 799-5200
	Greenville 29607	100 Industrial Blvd.	(803) 288-2760
Tenn.	Knoxville 37917	1708 Crockett St. N.E.	(615) 525-9356
	Memphis 38113	2351 Channel Ave.	(901) 948-5515
	Nashville 37206	1200-D Davidson St.	(615) 228-5521
Texas	Dallas 75001	Factory Way	(214) 233-3363
	Houston 77034	8901 Old Galveston Rd.	(713) 941-3403
	Midland 79701	Rankin Hwy., Route 1	(915) 563-0255
Va.	Roanoke 24016	2410 Patterson Ave. S.W.	(703) 345-7737
Wash.	Seattle 98031	831 Fifth Ave. S. (Kent)	(206) 852-3631
W. Va.	Huntington 25704	101 22nd St.	(304) 523-9458
Wisc.	Milwaukee 53201	1033 N. Hawley Rd.	(414) 258-4235
Can.	Toronto, Ontario	150 Bronoco Ave.	(416) 651-2822
P. R.	Guaynabo 00657	Box 847	(809) 789-9382

INTERNATIONAL DIVISION – *See Page Two.*

HEADQUARTERS:
ASHLAND CHEMICAL COMPANY
5200 Paul G. Blazer Memorial Parkway
Dublin, Ohio 43017
(614) 889-3333

MAILING ADDRESS:
P. O. Box 2219
Columbus, Ohio 43216

Ashland®

ASHLAND CHEMICAL COMPANY

DIVISION OF ASHLAND OIL, INC.

BULLETIN NUMBER 1300

LITHO IN U.S.A.

DEED

THIS DEED OF CONVEYANCE, made and entered into this 11th day of December, 1978, by and between ASHLAND OIL, INC., a Kentucky corporation, with offices at 5200 Paul G. Blazer Memorial Parkway, Dublin, Ohio 43017 (hereinafter called ("GRANTOR") and TEXTRON, INC., a Delaware corporation with its principal place of business at 40 Westminster Street, Providence, Rhode Island 02903, (hereinafter called "Grantee").

WITNESSETH:

That for and in consideration of $1,500,000 cash in hand this day paid, and other good and valuable consideration as set forth in that certain Purchase Agreement dated November 15, 1978 between GRANTOR and GRANTEE, the receipt and adequacy of all of which is hereby acknowledged, GRANTOR has granted, bargained, sold and conveyed, and does by these presents grant, bargain, sell and convey unto GRANTEE, its successors and assigns forever, those certain four (4) parcels of land, together with all improvements located thereon, described in Exhibit A, which is attached hereto and made a part hereof (hereinafter sometimes called the "Premises"). The Premises are Lots 9 and 11 in Block No. 5070 in Newark, Essex County, New Jersey.

TO HAVE AND TO HOLD the Premises with rights and appurtenances thereunto belonging to GRANTEE, its successors and assigns forever.

This conveyance is made subject to applicable zoning laws, ordinances, regulations and restrictions and to all easements, rights of way, exceptions, reservations, restrictions and conditions contained in prior instruments of record in the chain of title to the Premises described in Exhibit A.

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EXHIBIT A

LEGAL DESCRIPTION OF REAL ESTATE TO BE CONVEYED TOGETHER WITH A LIST OF ANY APPLICABLE LIENS, CHARGES OR ENCUMBRANCES.

Property 1 - Newark, N.J.

All those certain lots, pieces or parcels of land lying and being in the City of Newark, in Essex County, New Jersey, and being more particularly bounded and described as follows:

PARCEL I

Beginning at a point on the westerly bank of the Passaic River, where the division line between the premises herein described and the land formerly of the Federal Real Estate Company [now of Ashland Oil, Inc. ("AOI")] intersects the said River; running thence along the northerly line of the land of AOI, and hereinafter described as PARCEL II, north 55 degrees 26 minutes west 762 feet to the easterly line of the land conveyed by John C. Ahrens and Elizabeth, his wife, to Bay Shore Connecting Railroad Company, by deed dated March 21, 1907, and recorded April 12, 1907, in L. Q-41 c.p. 364; running thence along the easterly line of the property of the Bay Shore Connecting Railroad Company north 32 degrees 35 minutes east 248.38 feet to the southerly line of the land now or formerly of The Texas Company; running thence along southerly line of the land now or formerly of The Texas Company south 55 degrees 59 minutes east 681.45 feet to the westerly bank of the Passaic River; and running thence southerly along the westerly bank of said River to the point or place of beginning.

PARCEL II
"A"

Beginning at a point in the westerly high water line of the Passaic River, where the same is intersected by the division lines between lands formerly of Organic Salt & Acid Company, Inc. (now the property of AOI) and being the courses first described in PARCEL 1 above; thence along said division line north 63 degrees 38 minutes west 774 feet to the easterly line of lands of the Bay Shore Connecting Railroad Company; thence along said last mentioned line south 24 degrees 21

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minutes west 238.80 feet to the northerly line of lands now or formerly of Ballard Oil Equipment Company; thence along said last mentioned line south 63 degrees 38 minutes east 853 feet to the said high water line of the Passaic River; thence along said high water line of the Passaic River north 6 degrees 15 minutes east 254.15 feet to the beginning. The above description being in accordance with a survey made by George H. Gardner, Surveyor, dated February 16, 1925.

PARCEL II
"B"

Beginning at a point in the high water line of the northwesterly shore of the Passaic River, where the same is intersected by the southerly line of subdivision "A" of PARCEL II; thence southeasterly 75 feet to and at right angles with the exterior wharf line established by the Commissioners appointed under the authority of the act entitled "An Act to Ascertain the Rights of the State and of Riparian Owners in the Lands Lying under the Waters of the Bay of New York and Elsewhere in this State", approved April 11, 1864, and the supplements thereto; thence northeasterly along said exterior wharf line as shown and located on the map annexed to the grant from Edward C. Stokes, Governor, and others, Riparian Commissioners, to Federal Real Estate Company, recorded in Deed Book R 42, Page 561, et seq. 254 feet; thence northwesterly at right angles with said exterior wharf line 75 feet to the high water line of the northwesterly shore of the Passaic River where the same is intersected by the southerly line of the property described as PARCEL I herein; thence southwesterly along the high water mark to the place of beginning.

PARCEL II
"C"

Beginning in the exterior wharf line as called for in the grant made by the State of New Jersey on October 24, 1907, to Federal Real Estate Company, where the same is intersected by the southerly line of said grant;

Thence (1) south 83 degrees 42 minutes east along the extension of the southerly line of said grant and binding upon the grant made by the State of New Jersey July 18, 1927, to Ballard Oil Equipment Company, Inc., thirty-two and eleven hundredths (32.11) feet to the Pierhead and Bulkhead Line approved May 10,

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1915 by the Assistant Secretary of War and adopted August 3, 1915 by the Board of Commerce and Navigation appointed under the authority of the act entitled "An Act creating a department to be known as the Board of Commerce and Navigation, and vesting therein all the powers and duties now devolved, by law, upon the Board of Riparian Commissioners, the Department of Inland Waterways, the Inspectors of Power Vessels, and the New Jersey Harbor Commission", approved April 8, 1915, and other acts and joint resolutions of the Legislature of said State;

Thence (2) north 10 degrees 25 minutes east following said Pierhead and Bulkhead Line two hundred fifty-five and ninety hundredths (255.90) feet to a point;

Thence (3) north 83 degrees 42 minutes west in line with the northerly line of grant made by the State of New Jersey to Federal Real Estate Company aforesaid, fifty-three and forty-two hundredths (53.42) feet to the Exterior Line as called for in the aforesaid grant;

Thence (4) southwardly following said Exterior Wharf Line two hundred and fifty-four (254) feet to the place of beginning.

Together with all right, title and interest of AOI in and to the Wharf of the Passaic River in front of the premises described as PARCEL I and all riparian rights of the said AOI in and to any land lying in the bed of said Passaic River lying in front of said PARCEL I.

Together with a right of way for ingress and egress to and from Doremus Avenue to the premises described as PARCEL I and PARCEL II, Subdivision "A", over the right of way of the Bay Shore Connecting Railroad Company as reserved in the deed to the Bay Shore Connecting Railroad Company by deed from John C. Ahrens and Elizabeth his wife, dated March 21, 1907, and recorded April 12, 1907, in Liber Q41, c.p. 364.

PARCEL III

Beginning at a point in the mean high water line of the westerly shore of the Passaic River where the same is intersected by the northerly boundary of lands formerly of the

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Federal Real Estate Company (now of AOI) said point being distant 762 feet measured south 55 degrees 26 minutes east along said northerly boundary from its intersection with the easterly line of Bay Shore Connecting Railroad;

Thence (1) north 14 degrees 56 minutes east crossing the mouth of Plums Creek a distance of 270.46 feet to a point in the mean high water line of the westerly shore of Passaic River where the same is intersected by the division line between lands now or formerly of The Texas Company and lands of AOI, said point being distant south 55 degrees, 59 minutes east 681.45 feet eastwardly from the easterly line of the Bay Shore Connecting Railroad measured along said division line.

Thence (2) in a general southwestwardly, northwestwardly, southeastwardly and southwestwardly direction following said mean high water line of Passaic River and Plums Creek, the various courses and distances thereof to the point and place of beginning.

It being understood, however, that nothing contained in this grant shall constitute a right to close up or divert Plums Creek to the detriment of the owners of land through which said creek runs or to interfere with the natural uses of said creek for drainage purposes.

PARCEL IV

Beginning at a point in the former mean high water line of the westerly shore of Passaic River where the same is intersected by the boundary line between lands formerly of Federal Real Estate Company and lands of AOI herein, said point being distant 762 feet on a course which bears south 63 degrees 37 minutes 10 seconds east from the Southeasterly line of the Bay Shore Connecting Railroad, measured along the aforesaid boundary line, said point being also described as the beginning point in PARCEL I, in the deed from U.S. Industrial Alcohol Co., to U.S. Industrial Chemicals, Inc. dated December 31, 1938;

Thence (1) south 63 degrees 37 minutes 10 seconds east along the extension of said boundary line a distance of 12 feet to a point;

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Thence (2) south 83 degrees 42 minutes east bounding upon the northerly line of lands granted by the State of New Jersey to Federal Real Estate Company, October 27, 1907, and lands granted to U.S. Industrial Alcohol Co., July 15, 1929, a distance of 124.99 feet to the Pierhead and Bulkhead Line approved May 10, 1915 by the Secretary of War (re-approved June 27, 1925 by the Acting Secretary of War);

Thence (3) north 10 degrees 25 minutes east following said Pierhead and Bulkhead Line a distance of 272.26 feet to a point;

Thence (4) north 82 degrees 03 minutes 34 seconds west bounding upon the southerly line of lands granted by the State of New Jersey to The Texas Company, January 16, 1928, a distance of 157.90 feet to a point in the former mean high water line of the westerly shore of Passaic River where the same is intersected by the boundary line between lands now or formerly of The Texas Company and lands of said AOI herein;

Thence (5) south 64 degrees 10 minutes 10 seconds east along the extension of said boundary line a distance of 4.41 feet more or less to the end of the first course described in the grant made by the State of New Jersey to U.S. Industrial Chemicals, Inc., April 6, 1942;

Thence (6) south 6 degrees 44 minutes 50 seconds west along said first course described in the grant to U.S. Industrial Chemicals, Inc., April 6, 1942, a distance of 270.48 feet to the point and place of beginning.

With the right and privilege under the covenants and conditions of this grant, to exclude the tidewater from so much of the lands above described as lie under tide-water, by filling in or otherwise improving the same, and to appropriate the lands under water above described to its and their exclusive private uses, subject to approval of plans and specifications by Board of Commerce and Navigation or its successors in office.

Being the same lots, pieces or parcels of land conveyed to Ashland Oil & Refining Company, a Kentucky corporation, (name changed

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to Ashland Oil, Inc. January 29, 1970) by deed dated May 15, 1967 from Archer-Daniels-Midland Company, a Delaware corporation, of record in the Essex County Registers Office in Book 4239 of Deeds at Page 129.

The above described real estate is subject to the following:

1. Rights or claims of parties other than Ashland Oil, Inc. in actual possession of any or all of the property.

2. Unrecorded easements, if any, on, above or below the surface; and any discrepancies or conflicts in boundary lines, and shortage in area or encroachments, if any, which a correct survey or an inspection of the premises would disclose, made subsequent to July 9, 1954.

3. Unrecorded easement for spurs and sidings of Bay Shore Connecting Railroad, and for covered flume, formerly known as Plums Creek; encroachment into subject property concrete wall along Southerly line thereof, and encroachment of bulkhead timbers from subject property into adjoining premises, all as shown on survey dated July 9, 1954, by Borrie and McDonald.

4. Easement for Plumb Creek across subject property and rights of owners adjoining thereto.

5. There is no insurance that the above described property fronts on any public street or highway. (Access to subject property is under terms and conditions of deed recorded in Deed Book M-39, Page 553, and Deed Book Q-41, Page 364.

6. Easement over the most Northerly 15 feet of the above described property recorded in Deed Book 1-94, Page 3, to be used as a roadway.

7. Terms and conditions of three riparian grants recorded in Deed Book R-52, Page 561, Deed Book X-99, Page 403, and Deed Book C-108, Page 152, in the Office aforesaid.

8. Terms and conditions of an unrecorded Riparian Grant from the State of New Jersey

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to U. S. Industrial Alcohol Co., dated July 15, 1929.

9. Unrecorded storage contract with Commodity Credit Corporation, dated August 30, 1952.

10. Rights and estates, if any, of U. S. A. in lands lying between original natural high water mark line of Passaic River and the original natural low water mark line of said River.

11. Rights of Board of Commerce and Navigation to regulate construction on the waterfront under Public Law of N.J. 1914, Page 205, Section No. 4.

12. Paramount rights of United States of America over Commerce & Obligue or Navigation, including to fix and alter harbor bulkhead and pierhead line from time to time and to take lands as included therein or remove fill or improvements thereon or thereunder any point below ordinary high water mark line of Passaic River, all without compensation.

13. Terms and conditions of the agreement between Celanese Corporation of America and Archer-Daniels-Midland Company, dated May 31, 1955, recorded in Deed Book 3335, Page 509.

14. Terms and conditions of unrecorded agreement between Bay Shore Connecting Railroad Co. and Baker's Coconut Co., dated December 28, 1921, as recited in instrument recorded in Deed Book P-71, Page 368.

15. Outstanding rights of the State of New Jersey and owners abutting thereon in a tidewater creek to the Westward of the area of Riparian Grant recorded in Deed Book R-42, Page 561.

16. Unrecorded license agreement between Archer-Daniels-Midland Co. and Sun Oil Company, dated July 11, 1963, concerning construction and maintenance of a pile cluster on subject property.

17. Allocable taxes per this Purchase Agreement.

18. Unrecorded side track agreement with Bay Shore Connecting Railroad Co., dated August 24, 1951.

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19. Sewer easement being negotiated with the Housing Authority of the City of Newark, New Jersey.

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BOOK 4239 PAGE 129

DEED C.P. #12

THIS DEED made and entered into this 15th day of May, 1967, by and between ARCHER-DANIELS-MIDLAND COMPANY, a Delaware corporation, with its principal office at 733 Marquette Avenue, Minneapolis, Minnesota 55440 (hereinafter called "GRANTOR"), and ASHLAND OIL & REFINING COMPANY, a Kentucky corporation, with its principal office at 1409 Winchester Avenue, Ashland, Kentucky (hereinafter called "GRANTEE"),

R.S. None

WITNESSETH:

That for and in consideration of the sum of Ten Dollars ($10.00) and other cash consideration, the receipt and adequacy of all of which is hereby acknowledged, GRANTOR has given, granted, bargained, sold, aliened, released, enfeoffed, conveyed and confirmed, and by these presents does give, grant, bargain, sell, alien, release, enfeoff, convey and confirm to the GRANTEE, its successors and assigns forever, all those certain lots, pieces or parcel of land lying and being in the City of Newark, in Essex County, New Jersey, and being more particularly bounded and described as follows:

PARCEL I. Beginning at a point on the westerly bank of the Passaic River, where the division line between the premises herein described and the land formerly of the Federal Real Estate Company (now of the GRANTOR) intersects the said River; running thence along the northerly line of the land of the GRANTOR, and hereinafter described as PARCEL II, north 55 degrees 26 minutes west 762 feet to the easterly line of the land conveyed by John C. Ahrens and Elizabeth, his wife, to Bay Shore Connecting Railroad Company, by deed dated March 21, 1907, and recorded April 12, 1907, in L. Q-41 c.p. 364; running thence along the easterly line of the property of the Bay Shore Connecting Railroad Company north 32 degrees 35 minutes east 248.38 feet to the southerly line of the land now or formerly of The Texas Company; running thence along southerly line of the land now or formerly of The Texas Company south 55 degrees 59 minutes east 681.45 feet to the westerly bank of the Passaic River; and running thence southerly along the westerly bank of said River to the point or place of beginning.

RECEIVED AND RECORDED
REGISTER'S OFFICE
ESSEX COUNTY, N.J.
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BOOK 4239 PAGE 129
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PARCEL II.

"A" Beginning at a point in the westerly high water line of the Passaic River, where the same is intersected by the division lines between lands formerly of Organic Salt & Acid Company, Inc. (now the property of GRANTOR) and being the courses first described in PARCEL I above; thence along said division line north 63 degrees 38 minutes west 774 feet to the easterly line of lands of the Bay Shore Connecting Railroad Company; thence along said last mentioned line south 24 degrees 21 minutes west 238.80 feet to the

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northerly line of lands now or formerly of Ballard Oil Equipment Company; thence along said last mentioned line south 63 degrees 38 minutes east 853 feet to the said high water line of the Passaic River; thence along said high water line of the Passaic River north 6 degrees 15 minutes east 254.15 feet to the beginning. The above description being in accordance with a survey made by George H. Gardner, Surveyor, dated February 16, 1925.

PARCEL II "B"

Beginning at a point in the high water line of the northwesterly shore of the Passaic River, where the same is intersected by the southerly line of subdivision "A" of PARCEL II; thence southeasterly 75 feet to and at right angles with the exterior wharf line established by the Commissioners appointed under the authority of the act entitled "An Act to Ascertain the Rights of the State and of Riparian Owners in the Lands Lying under the Waters of the Bay of New York and Elsewhere in this State", approved April 11, 1864, and the supplements thereto; thence northeasterly along said exterior wharf line as shown and located on the map annexed to the grant from Edward C. Stokes, Governor, and others, Riparian Commissioners, to Federal Real Estate Company, recorded in Deed Book R 42, Page 561, et seq. 254 feet; thence northwesterly at right angles with said exterior wharf line 75 feet to the high water line of the northwesterly shore of the Passaic River where the same is intersected by the southerly line of the property described as PARCEL I herein; thence southwesterly along the high water mark to the place of beginning.

PARCEL II "C"

Beginning in the exterior wharf line as called for in the grant made by the State of New Jersey on October 24, 1907, to Federal Real Estate Company, where the same is intersected by the southerly line of said grant;

Thence (1) south 83 degrees 42 minutes east along the extension of the southerly line of said grant and binding upon the grant made by the State of New Jersey July 18, 1927, to Ballard Oil Equipment Company, Inc., thirty-two and eleven hundredths (32.11) feet to the Pierhead and Bulkhead Line approved May 10, 1915 by the Assistant Secretary of War and adopted August 3, 1915 by the Board of Commerce and Navigation appointed under the authority of the act entitled "An Act creating a department to be known as the Board of Commerce and Navigation, and vesting therein all the powers and duties now devolved, by law, upon the Board of Riparian Commissioners, the Department of Inland Waterways, the Inspectors of Power Vessels, and the New Jersey Harbor Commission", approved April 8, 1915, and other acts and joint resolutions of the Legislature of said State;

Thence (2) north 10 degrees 25 minutes east following said Pierhead and Bulkhead Line two hundred fifty-five and ninety hundredths (255.90) feet to a point;

Thence (3) north 83 degrees 42 minutes west in line with the northerly line of grant made by the State of New Jersey to Federal Real Estate Company aforesaid, fifty-three and forty-two hundredths (53.42) feet to the Exterior Line as called for in the aforesaid grant;

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The : (4) southwardly following said E rior Wharf Line two hundred and fifty-four (254) feet to the place of beginning.

Together with all right, title and interest of the GRANTOR in and to the Wharf of the Passaic River in front of the premises described as PARCEL I and all riparian rights of the said GRANTOR in and to any land lying in the bed of said Passaic River lying in front of said PARCEL I.

Together with a right of way for ingress and egress to and from Doremus Avenue to the premises described as PARCEL I and PARCEL II, Subdivision "A", over the right of way of the Bay Shore Connecting Railroad Company as reserved in the deed to the Bay Shore Connecting Railroad Company by deed from John C. Ahrens and Elizabeth, his wife, dated March 21, 1907, and recorded April 12, 1907, in Liber Q 41, c.p. 364.

PARCEL III

Beginning at a point in the mean high water line of the westerly shore of Passaic River where the same is intersected by the northerly boundary of lands formerly of the Federal Real Estate Company (now of the GRANTOR) said point being distant 762 feet measured south 55 degrees 26 minutes east along said northerly boundary from its intersection with the easterly line of Bay Shore Connecting Railroad;

Thence (1) north 14 degrees 56 minutes east crossing the mouth of Plums Creek a distance of 270.46 feet to a point in the mean high water line of the westerly shore of Passaic River where the same is intersected by the division line between lands now or formerly of The Texas Company and lands of the said GRANTOR, said point being distant south 55 degrees, 59 minutes east 681.45 feet eastwardly from the easterly line of the Bay Shore Connecting Railroad measured along said division line;

Thence (2) in a general southwestwardly, northwestwardly, southeastwardly and southwestwardly direction following said mean high water line of Passaic River and Plums Creek, the various courses and distances thereof to the point and place of beginning.

It being understood, however, that nothing contained in this grant shall constitute a right to close up or divert Plums Creek to the detriment of the owners of land through which said creek runs or to interfere with the natural uses of said creek for drainage purposes.

PARCEL IV

Beginning at a point in the former mean high water line of the westerly shore of Passaic River where the same is intersected by the boundary line between lands formerly of Federal Real Estate Company and lands of the GRANTOR herein, said point being distant 762 feet on a course which bears south 63 degrees 37 minutes 10 seconds east from the Southeasterly line of the Bay Shore Connecting Railroad, measured along the aforesaid boundary line, said point being also described as the beginning point in PARCEL I, in the deed from U.S. Industrial Alcohol Co., to U.S. Industrial Chemicals, Inc. dated December 31, 1938;

Thence (1) south 63 degrees 37 minutes 10 seconds east along the extension of said boundary line a distance of 12 feet to a point;

Thence (2) south 83 degrees 42 minutes east bounding upon the northerly line of lands granted by the State of New Jersey to Federal Real Estate Company, October 27, 1907, and lands granted to U. S. Industrial Alcohol Co., July 15, 1929, a distance of 124.99 feet to the Pierhead and Bulkhead Line approved May 10, 1915 by the

Secretary of War (re-approved June 27, 1925 by the Acting Secretary of War); C.P.#12

Thence (3) north 10 degrees 25 minutes east following said Pierhead and Bulkhead Line a distance of 272.26 feet to a point;

Thence (4) north 82 degrees 03 minutes 34 seconds west bounding upon the southerly line of lands granted by the State of New Jersey to The Texas Company, January 16, 1928, a distance of 157.90 feet to a point in the former mean high water line of the westerly shore of Passaic River where the same is intersected by the boundary line between lands now or formerly of The Texas Company and lands of said GRANTOR herein;

Thence (5) south 64 degrees 10 minutes 10 second east along the extension of said boundary line a distance of 4.41 feet more or less to the end of the first course described in the grant made by the State of New Jersey to U. S. Industrial Chemicals, Inc., April 6, 1942;

Thence (6) south 6 degrees 44 minutes 50 seconds west along said first course described in the grant to U. S. Industrial Chemicals, Inc., April 6, 1942, a distance of 270.48 feet to the point and place of beginning.

With the right and privilege under the covenants and conditions of this grant, to exclude the tidewater from so much of the lands above described as lie under tide-water, by filling in or otherwise improving the same, and to appropriate the lands under water above described to its and their exclusive private uses, subject to approval of plans and specifications by Board of Commerce and Navigation or its successors in office.

Being the same property conveyed to GRANTOR by National Distillers Products Corporation, a Virginia corporation, by deed dated July 1, 1954, of record in the Essex County Registrar's Office in Book 3238 of Deeds at Page 309.

together with all and singularly the buildings, trees, ways, waters, profits, privileges, plants, structures, equipment, machinery and facilities, with the appurtenances to the same belonging or in anywise appertaining; also all the estate, right, title, interest, property, claim and demand whatsoever of the GRANTOR in and to the same, and of, in and to every part and parcel thereof.

TO HAVE AND TO HOLD all and singularly the above described land and premises to the GRANTEE, its successors and assigns, to the only proper use, benefit and behoof of the GRANTEE, its successors and assigns forever.

There is excepted from the GRANTOR's warranty, and this deed is expressly made subject to the following:

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C.P.#12

1. Easement of Plums Creek running through premises and rights of adjoining owners therein, also easement of any roads, ditches, streams, pipe and drain lines which may cross or bound said premises.

2. Easement, if any, of New York Bay Railroad crossing the premises, as shown on Atlas of the City of Newark.

3. Easement over the most northerly 15 feet of the premises as granted in Deed Book I-94, Page 3.

4. The warranty covenants hereinafter set forth shall not apply to any land under water lying east of the line described in the Riparian Grant recorded in Book X-99, Page 403.

5. Easement of any railroad sidings, spurs or tracks crossing the premises.

6. Lands lying below the original high water line of Passaic River and Plums Creek are subject to the right of proper state agencies to approve and control any structures of any kind to be erected on or over the lands lying below high water mark.

7. Lands lying below original high water line below Passaic River and Plums Creek are subject to the paramount right of the proper agencies of the United States to regulate the uses of such lands and to establish bulkhead or solid fill lines and pierhead lines at any point below original high water line without compensation for loss incurred.

8. Terms and conditions of the Riparian Grant made by the State of New Jersey to U. S. Industrial Chemicals, Inc., a corporation of Delaware, dated April 6, 1942, and recorded May 8, 1942 in Deed Book X-99, Page 403, granting certain rights in Plums Creek.

9. Outstanding rights of the State of New Jersey and owners abutting thereon in a tidewater creek to the westward of the area of Riparian Grant recorded in Deed Book R-42, Page 561.

10. Terms and conditions of the three Riparian Grants made by the State of New Jersey, respectively, to U. S. Industrial Alcohol Co. dated July 15, 1929, to Federal Real Estate Company dated October 24, 1907, recorded December 18, 1907 in Book R-42, Page 561 and to U.S. Industrial Chemicals, Inc. dated June 10, 1946, recorded July 29, 1946 in Book C-108, Page 152.

11. Side-track Agreement dated August 24, 1951, entered into with Bay Shore Connecting Railroad Company.

12. The rights vested in Sun Oil Company to install a pile cluster on the above described lands pursuant to the terms and provisions of a License Agreement between GRANTOR and Sun Oil Company dated July 11, 1963.

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GRANTOR for itself, its successors and assigns, covenants with GRANTEE, its successors and assigns, that the GRANTOR will warrant, secure and

forever defend the said land and premises unto the GRANTEE, its successors and assigns forever, against the lawful claims and demands of all and every person or persons, freely and clearly freed and discharged of and from all manner of incumbrance, whatsoever.

GRANTOR does also grant and convey unto GRANTEE all of its right, title, and interest in, to, and under the License Agreement between Archer-Daniels-Midland Company and Sun Oil Company dated July 11, 1963.

The terms contained herein shall be binding upon and inure to the benefit of the successors and assigns of the parties hereto.

IN TESTIMONY WHEREOF the GRANTOR has caused this instrument to be executed by its duly authorized officers and the corporate seal to be affixed thereto pursuant to the resolutions of its Board of Directors as of the day and year first above written.

ARCHER-DANIELS-MIDLAND COMPANY

Executed, acknowledged and delivered in the presence of the undersigned attesting witnesses:

Marian L. Hayman

James H. Moore, Jr.

By _____
Rodger L. Nordbye, Vice President

Attest: _____
Roy L. Erickson, Assistant Secretary

The name and address of the party to receive tax bills with respect to the property conveyed hereby is Ashland Oil & Refining Company, 1409 Winchester Avenue, Ashland, Kentucky 41101.

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VOLUME I OF II
PROGRESS REPORT -
REMEDIAL INVESTIGATION REPORT -
CONCEPTUAL SOIL REMEDIATION WORKPLAN

FORMER ASHLAND CHEMICAL COMPANY IC&S FACILITY
221 FOUNDRY STREET, NEWARK, NEW JERSEY
ISRA CASE NO. 88695

15 November 1994

FILE
Div DSO
City NEWARK NJ
Air Water Waste Gen IH Saf
AMIC Ins Proc Saf
1704

GROUNDWATER TECHNOLOGY

842600182

2.0 BACKGROUND INFORMATION

2.1 Chronology of Significant Events

1940-1968	Site owned by Lasp Realty, Inc. and parcels leased to Chemical Solvents, Inc. and Lacquer Specialties.
1960-1961	Ohmlac Paint Company, which owned an 0.8 acre lot in the western portion of the site, ceased operations. ACC subsequently acquired this property.
1967	Chemical Solvents, Inc. purchased by ACC.
1968	ACC acquired the property from Lasp Realty, Inc..
May 1979	At direction of the NJDEP, ACC initiated groundwater recovery at location of a March 1979 fuel oil spill. Recovered groundwater discharged to Passaic Valley Sewerage Commissioners (PVSC) system under permit no. 20403793.
1988	The New Jersey Turnpike Authority (NJTA) notified ACC of its intention to widen the highway which would require the NJTA to appropriate the western portion of the property. In anticipation of the transaction between the NJTA and ACC, ACC voluntarily enters into the ECRA compliance process.
1989	ECRA investigation conducted by TMGI. Included: installation of 27 monitoring wells; drilling of 54 shallow soil borings; collection of subsurface soil samples; collection of groundwater monitoring data; and performance of hydraulic conductivity testing.
March 1989	Collection of groundwater samples from 27 site monitoring wells.
19 May 1989	TMGI Report: *ECRA Sampling Findings and Proposed Remedial Action*.
15 November 1989	Correspondence from the NJDEP approving the TMGI cleanup plan.
18 January 1990	TMGI Report: *Supplemental ECRA Sampling Plan*.
11 October 1990	ACC notified NJDEP of impending cessation of all site operations.
24 October 1990	ACC ceased all operations at the site.
6 December 1990	Correspondence from the NJDEP to ACC in response to the TMGI cleanup, providing conditional acceptance of the plan.
18 March 1991	Correspondence from ACC to the NJDEP in response to the 6 December 1990 NJDEP correspondence: *Cleanup Plan Amendment*. Included a workplan for the installation of four intermediate depth monitoring wells at the site to vertically delineate groundwater impact in accordance with the 6 December 1990 correspondence.

8 May 1991	Correspondence from ACC to the PVSC providing notification that groundwater recovery relating to the fuel oil spill was no longer required as part of the site Discharge Prevention and Containment and Countermeasure (DPCC) plan.
5 September 1991	Correspondence from the NJDEP to ACC in response to the 12 June and 15 July 1991 Progress Reports. Directs ACC to: initiate semi-annual groundwater sampling and reporting; submit a revised project schedule; submit a Treatment Works approval for the proposed groundwater treatment system upon receipt of a site New Jersey Pollutant Discharge Elimination System (NJPDES) permit; begin installation of the proposed groundwater recovery/treatment (GWR/T) system upon receipt of all necessary permits; provide information on existing downgradient monitoring wells; and evaluate the feasibility of groundwater re-injection as part of the GWR/T system.
19 September 1991	Meeting between ACC, GTI, and the NJDEP. Agreement between attending parties that the TMGI cleanup plan was impractical for the site and that a re-evaluation of the plan would be conducted. Semi-annual groundwater sampling initiated.
January 1992	Demolition of all aboveground structures at the site was completed.
March 1992	GTI Report: *Report of Findings and Proposed Groundwater Monitoring Program.*
9 July 1992	Correspondence from the NJDEP to ACC in response to the 12 March 1992 Progress Report. Directs ACC to: conduct additional groundwater monitoring; verify well search information with the local health department; properly abandon any damaged site monitoring wells; investigate the extent of asphalt/light non-aqueous phase liquids (LNAPL) impact; further investigate soil and groundwater impact in the area of wells MW-12 and MW-24; and provide detailed groundwater sampling information for future sampling events.
6 August 1992	Meeting between ACC, GTI, and the NJDEP. Agreement between attending parties that groundwater cleanup standards for the site would be 1.0 milligram per liter (mg/L) individual organic compounds and 10 mg/L total organic compounds. Also agreed that cleanup below background levels was not necessary if evidence of offsite impact was demonstrated.
29 August- 11 September 1992	Abandonment of former wells MW-2, MW-11, MW-13, MW-14, MW-15, MW-17, MW-18, MW-19, MW-26, and MW-27. Wells had been damaged or destroyed during site demolition activities. Installation of: monitoring wells MW-5B, MW-12B, MW-13B; MW-24B; shallow monitoring wells MW-2 (replacement), MW-9 (replacement), MW-13 (replacement), MW-16, MW-17 (replacement), MW-18 (replacement), MW-20, MW-26 (replacement), MW-27 (replacement), MW-28, and MW-29; and piezometers PZ-1, PZ-2, and PZ-3. Drilling of three soil borings in the area of well MW-12.

	Subsurface soil samples collected and analyzed from six drilling locations.
	Repair of wells MW-1, MW-5, MW-8, MW-12, MW-21, and MW-22.
31 August 1992	Excavation of 24 shallow test pits in the areas of wells MW-4 and MW-9. Collection of a sample of "asphalt-like" material from soil in area of well MW-4.
23 September 1992	Correspondence from GTI, on behalf of ACC, requesting a Discharge to Groundwater Waiver for the performance of groundwater re-injection tests.
24 September 1992	Conducted review of Pitt-Consul site files at NJDEP.
	Correspondence from the NJDEP to ACC extending the submittal deadline for the results of the soil and groundwater investigation to 29 January 1993.
29 September-3 October 1992	Collection of groundwater samples from 20 site monitoring wells (semi-annual sampling event).
7 October 1992	Correspondence from the NJDEP to ACC directing ACC to properly abandon several site monitoring wells.
20 November 1992	Correspondence from the NJDEP to ACC approving the 23 September 1993 request to conduct groundwater re-injection tests at the site.
15 December 1992	GTI Report: *Report of Findings - Soil and Groundwater Investigation.* Included results of: the first phase of delineation test pitting; installation of additional/replacement monitoring wells and piezometers; completion of soil borings; collection and analysis of soil samples; abandonment of damaged/destroyed monitoring wells; sampling and analysis of asphalt-like material at well MW-4; and September/October 1992 and historical groundwater monitoring.
	Correspondence from GTI, on behalf of ACC, to the NJDEP requesting an extension of the submittal deadline for the groundwater re-injection test results.
22 December 1992	Correspondence from the NJDEP to ACC extending the submittal deadline for the groundwater re-injection test results to 29 January 1993.
6 January 1993	Performance of groundwater re-injection tests on wells MW-5B and MW-12B.
28 January 1993	GTI Report: *Injection Tests - Report of Findings.*
8 April 1993	Abandonment of wells MW-9 and MW-16. Wells had been damaged or destroyed during site demolition activities.
	Installation of wells MW-30 (to investigate groundwater quality at soil boring location SB-57) and MW-9A (replacement for MW-9). Collection of a sample of LNAPL from original well MW-9.

27-28 April 1993	Collection of groundwater samples from 21 site monitoring wells (semi-annual sampling event).
11 May 1993	Correspondence from the NJDEP to ACC in response to the 15 December 1992 *Report of Findings - Soil and Groundwater Investigation*. Directs ACC to: conduct additional asphalt and LNAPL delineation; conduct manual LNAPL recovery; install an additional monitoring well (MW-30) at soil boring location SB-57; submit a proposed groundwater monitoring program; and prepare an addendum to the TMGI cleanup plan.
10 June 1993	Excavation of additional test pits in the areas of wells MW-4 and MW-9/9A to further delineate soil impact.
11 June 1993	Correspondence from GTI, on behalf of ACC, to the NJDEP responding to the 11 May 1993 NJDEP correspondence. Included is a request for modification of the progress report reporting frequency from monthly to quarterly.
15 July 1993	GTI Report: *Results of the April 1993 Groundwater Sampling*. Included results of: installation of additional/replacement monitoring wells; abandonment of damaged/destroyed monitoring wells; sampling of LNAPL in area of wells MW-9/9A; and April 1993 and historical groundwater monitoring.
30 August 1993	Correspondence from the NJDEP to ACC requiring the location and proper abandonment of an old Arkansas Company, Inc. supply well at the site.
8 September 1993	Correspondence from Seacor, on behalf of ACC, requesting an extension of the submittal deadline for the *Remedial Action Workplan Addendum*.
29 September 1993	Correspondence from the NJDEP to ACC extending the submittal deadline for the *Remedial Action Workplan Addendum* to 15 December 1993.
16-17 November 1993	Collection of groundwater samples from 21 monitoring wells.
15 December 1993	GTI Report: *Remedial Action Workplan Addendum*. Included results of additional delineation of asphalt and LNAPL and a workplan for the performance of a site risk assessment and development of site specific risk based cleanup criteria.
4 February 1994	Correspondence from GTI to the NJDEP indicating that attempts to locate the old Arkansas Company, Inc. supply well were unsuccessful and requesting that the matter be closed.
9 February 1994	Correspondence from the NJDEP to ACC requiring the following: remediation of groundwater at the downgradient property edge to Class II-A quality standards; full delineation of product in the areas of MW-4, MW-9/9A, and MW-25; full delineation of soil impact; initiation of bi-weekly LNAPL recovery; remediation of LNAPL impacted soils and soils exceeding 10,000 mg/Kg total organics; redevelopment of MW-3; installation of additional onsite (MW-31 and MW-24C) and offsite monitoring wells; and submittal of report documenting the results of the aforementioned activities and a workplan for remediation of soil and groundwater impact.

14 February 1994	GTI quarterly *Progress Report.*
15 February 1994	GTI Report: *Groundwater Monitoring Update-Results of November 1993 Groundwater Sampling*
26 April 1994	Correspondence from ACC to NJDEP requesting a meeting to discuss the scope of soil impact delineation sampling and the overall project schedule.
27-28 April 1994	Collection of groundwater samples from 19 monitoring wells. Two wells not sampled due to the presence of LNAPL.
10-13 May 1994	Collection of groundwater screening samples downgradient of well MW-26 and additional delineation of asphalt and LNAPL in the areas of MW-4, MW-9/9A, MW-12, and MW-25.
13 May 1994	GTI quarterly *Progress Report.*
18 May 1994	Inspection of site by H. Kindervatter, NJDEP, and meeting between Mr. Kindervatter, T. Horton, ACC, and M. Noblet, GTI. Discussed scope of soil impact delineation sampling and the overall project schedule.
8-10 June 1994	Installation of wells MW-24C and MW-31.
23 June 1994	Correspondence from NJDEP to ACC. Included results of 18 May 1994 site inspection and required ACC to: request variances for the performance of the soil impact delineation sampling; complete soils investigation; remediate soils exceeding 10,000 mg/Kg total organics; and prepare a draft Declaration of Environmental Restriction.
June/July 1994	NJTA construction activities commence.
30 June 1994	Correspondence from ACC to NJDEP requesting variances for the performance of the soil impact delineation sampling and a proposed schedule for the completion of project activities.
6 July 1994	Correspondence from NJTA indicating that decommissioning two ACC monitoring wells (MW-7 and MW-8) is required for the NJTA construction activities.
7 July 1994	Collection of groundwater samples from wells MW-24C and MW-31.
9 August 1994	Correspondence from GTI to E.I DuPont requesting access to the Pitt-Consul site for installation of additional downgradient monitoring wells.
10 August 1994	GTI quarterly *Progress Report.*
26 August - 15 September 1994	Performance of comprehensive soil quality investigation.
September 1994	ACC and E.I DuPont communicate regarding access to Pitt-Consul site. Access conditionally granted pending execution of written access agreement.

19 October 1994 Collection of groundwater samples from 21 monitoring wells. Two wells not sampled due to the presence of LNAPL.

2.2 Quarterly Activities

2.2.1 Site Monitoring

Table 1 presents a summary of site monitoring well construction information and **Figure 2** shows the well locations. During the reporting period the following site monitoring activities were conducted:

- Performance of well gauging and manual recovery of LNAPL, as encountered, from wells MW-9, MW-9A, MW-12, MW-25, and MW-26 on 11 August, 28 September, and 19 October 1994.
- Performance of well gauging of all site monitoring wells on 11 August 1994 and 19 October 1994.
- Collection of semi-annual groundwater samples from 21 site wells.

Results of the monthly well gauging, LNAPL recovery, and the August 1994 quarterly well gauging are presented in Section 3.0 of this report. Results of the October 1994 quarterly well gauging and semi-annual groundwater sampling will be reported in the February 1995 Progress Report.

2.2.2 Offsite Access - Pitt Consul Site

As required by the NJDEP, the process of requesting access to the offsite, downgradient property, for the purpose of installation of additional monitoring wells was initiated in August 1994. Based upon the present understanding of groundwater flow at the site and the geometry of the site location relative to downgradient properties, access to the Pitt-Consol property, owned by E.I DuPont (DuPont), Wilmington, Delaware, has been requested. Correspondence dated 9 August 1994 was submitted to Mr. Fred Ayres, Properties Manager of Dupont's Corporate Real Estate department requesting access in this regard. A copy of this correspondence was submitted to the NJDEP as an attachment to the 10 August 1994 *Progress Report*.

Communications have since occurred between ACC, GTI, and Mr. Brandt Butler, Pitt-Consul Remediation Manager for DuPont and access to the site was conditionally approved pending execution of a written access agreement between ACC and DuPont. The final agreement is expected to be completed during December 1994. Preliminary screening of groundwater quality at the Pitt-Consul site is expected, weather permitting, to be completed in February 1995 and installation of additional monitoring wells is expected, weather permitting, in March 1995. Sampling of the new monitoring wells will be conducted during the next regularly scheduled semi-annual sampling event in April 1995.

2.2.3 Decommissioning of MW-7 and MW-8

The NJTA construction activities which commenced in June/July 1994 necessitated the decommissioning of two ACC monitoring wells: MW-7 and MW-8. The wells were decommissioned by a certified well abandonment contractor to Dames & Moore, Inc., Cranford, New Jersey on 10 August 1994. The abandoned wells were filled with a cement bentonite grout and capped with cement. Copies of the Well Abandonment Reports are presented in **Attachment A.**

2.2.4 Disposal of Investigation Derived Waste

The transport and offsite disposal of investigation derived waste was coordinated with ACC Environmental Services during the reporting period. On 30 August 1994 the following wastes were transported offsite for proper disposal by ACC Environmental Services:

- Seven (7) 50-gallon barrels of purged groundwater;
- Three (3) 50-gallon barrels of soil drill cuttings; and
- One (1) 50-gallon barrel of personal protective and sampling equipment.

Copies of the hazardous waste manifests for this shipment are presented as **Attachment B.**

2.2.5 Asphalt and LNAPL Delineation

As required by the NJDEP, an investigation to delineate the extent of asphalt and LNAPL in the areas of the site was completed. Between 10 and 13 May 1994, a total of 40 shallow soil borings were completed to delineate LNAPL in the vicinities of wells MW-4, MW-9/9A, MW-12, and MW-25. A truck-mounted Geoprobe™ was utilized to collect undisturbed cores of soil/fill materials to water table depth. The presence of LNAPL in soil samples was determined by visual observation and soil-water agitation.

Fifteen soil borings were completed in the vicinity of MW-4. The soil boring locations were determined based on the results of 26 test pits excavated in the vicinity of MW-4 on August 1992 and June 1993. A thick, black asphalt material was observed in 7 of the borings at typical depths of 2 to 3.5 feet below ground surface (bgs). Six borings encountered concrete at one foot bgs and two borings did not contain asphalt. The extent of asphalt was not fully determined to the east, south and west of MW-4 due to subsurface concrete and inaccessibility.

Six borings were completed in the vicinity of MW-9. Soil borings were located based on the results of 25 test pits previously completed in the area and an assumed easterly direction of groundwater flow. Two borings were observed to contain LNAPL based on soil/water agitation of samples. The aerial

extent of potential LNAPL was determined downgradient of MW-9. The presence of the New Jersey Turnpike prevented additional delineation farther east. However, the delineation of LNAPL in this area is substantially complete.

Ten borings were completed in the vicinity of MW-12, eight of which exhibited LNAPL at depths ranging from two to four feet bgs. LNAPL delineation was not possible north and east of MW-12 due to inaccessible terrain and the location of two large concrete pads.

Nine borings were completed in the vicinity of MW-25, four of which exhibited LNAPL. Concrete was encountered south of MW-25 in the former location of an access road. Three concrete pads at the surface to the north and west of MW-25 also hindered access. However, the delineation of LNAPL in this area is substantially complete.

In summary, the delineation of the extent of LNAPL at the site is substantially complete. Remediation of LNAPL impacted soils will be addressed as part of the pending Soils Remedial Action Workplan.

2.2.6 Soil Quality Investigation

In accordance with the directives of the NJDEP, a soil quality investigation was completed to delineate the extent of vadose zone soil impact. The scope of the investigation was consistent with guidelines contained in the NJDEP *Technical Requirements For Site Remediation* (N.J.A.C. 7:26E) and the NJDEP approved variance as specified in NJDEP correspondence dated 23 June 1994 and confirmed in ACC correspondence dated 30 June 1994.

Between 29 August and 15 September 1994 a total of 250 soil borings were completed at the site. The soil borings were completed to characterize soil quality and delineate the distribution of organics in soils in each of 37 identified Areas of Concern (AOCs). A detailed discussion of the investigation methodologies and results is presented in Section 4.0 of this report.

842600191

TABLE 5
GROUNDWATER SAMPLE RESULTS – MW-24C & MW-31 – 7 JULY 1994
FORMER ASHLAND CHEMICAL COMPANY IC&S SITE
221 FOUNDRY STREET
NEWARK, NEW JERSEY
ISRA CASE NO. 88695

WELL ID	MW-31	MW-24C	*NJDEP GW QUALITY STD*	FIELD BLANK
SCREENED INTERVAL (FEET)	0.25 – 5.25	28.0 – 38.0		
SAMPLE DATE	07-JUL-94	07-JUL-94		07-JUL-94
ANALYSIS DATE	15-JUL-94	19-JUL-94		15-JUL-94
VOLATILE ORGANICS (µg/L)				
Halogenated VOC Detected				
Chlorobenzene	ND	250	*4*	ND
1,2-Dichlorobenzene	0.39 J	3.1 J	*600*	ND
1,3-Dichlorobenzene	0.2 J	4.9 J	*600*	ND
1,4-Dichlorobenzene	0.26 J	11	*75*	ND
1,1-Dichloroethane	0.59 J	ND	*70*	ND
1,1-Dichloroethene	0.18 J	ND	*2*	ND
cis-1,2-Dichloroethene	30	2.2 J	*10*	ND
Tetrachloroethene	2.5	ND	*1*	ND
Trichloroethylene	2.0	ND	*1*	ND
Vinyl Chloride	4.2	ND	*5*	ND
TOTAL HALOGENATED VOC	40	271	*No Std*	ND
Aromatic VOC Detected				
Benzene	0.34 J	170	*1*	ND
Toluene	0.19 J	1.6 J	*1,000*	ND
Ethylbenzene	ND	3.4 J	*700*	ND
Xylenes (Total)	ND	2.5 J	*40*	ND
TOTAL AROMATIC VOC (µg/L)	0.53	178	No Std	ND
TOTAL VOLATILE ORGANICS (µg/L)	41	449	No Std	ND

Notes:
ND: Not detected.
J: Estimated value.
B: Analyte detected in associated method blank.

Shading indicates exceedance of NJDEP Groundwater Quality Standard, N.J.A.C. 7:9-6.

PROGRESS REPORT
FORMER ASHLAND CHEMICAL COMPANY IC&S FACILITY
221 FOUNDRY STREET
NEWARK, NEW JERSEY
ISRA CASE NO. 88695

10 August 1994

FILE
Div DSO
City NEWARK NJ
Air Water Waste Gen IH Saf
HSO AMIC Ins Proc Saf
7704

GROUNDWATER TECHNOLOGY

842600192

Newark, NJ DSO

842600193

Attachment F

GROUNDWATER TECHNOLOGY

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS
FORMER ASHLAND CHEMICAL IC&S SITE
221 FOUNDRY STREET
NEWARK, NEW JERSEY
ISRA CASE NO. 88695

	MW-1					
	Mar-89	Oct-91	Sep-92	Apr-93	Nov-93	Apr-94
VOLATILE ORGANIC COMPOUNDS (ug/L)						
Halogenated VOCs Detected						
Chlorobenzene	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	6.2	ND	ND	ND
Chloromethane	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND
Tetrachloroethene	80.0	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	16 J	ND
Trichloroethene	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND	ND	ND
TOTAL HALOGENATED VOCs	80.0	ND	6.2	ND	16	ND
Aromatic VOCs Detected						
Benzene	1,700	1,600	ND	560	690	530
Toluene	ND	ND	ND	ND	2.2 J	11 J
Ethylbenzene	ND	ND	2.3	ND	14 J	34
Xylenes (Total)	1,100	ND	180	2,900	1,400	2,500
TOTAL BTEX	2,800	1,600	182	3,460	2,106	3,075
TOTAL VOCs	2,880	1,600	189	3,460	2,122	3,075

NOTES:
ND = Compound Not Detected
NE = Well Not Existing
-- = Well Not Sampled

GROUNDWATER TECHNOLOGY

842600195

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS
FORMER ASHLAND CHEMICAL IC&S SITE
221 FOUNDRY STREET
NEWARK, NEW JERSEY
ISRA CASE NO. 88695

	MW-2					
	Mar-89	Oct-91	Sep-92	Apr-93	Nov-93	Apr-94
VOLATILE ORGANIC COMPOUNDS (ug/L)						
Halogenated VOCs Detected						
Chlorobenzene	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	130 J	ND
Methylene Chloride	ND	ND	ND	ND	320	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	180 J	ND
Trichloroethene	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND	ND	ND
TOTAL HALOGENATED VOCs	ND	ND	ND	ND	630	ND
Aromatic VOCs Detected						
Benzene	208	27,000	26,000	18,000	14,000	41,000
Toluene	ND	ND	33.0	ND	29 J	ND
Ethylbenzene	ND	ND	ND	ND	37 J	ND
Xylenes (Total)	ND	ND	ND	ND	100 J	ND
TOTAL BTEX	208	27,000	26,033	18,000	14,166	41,000
TOTAL VOCs	208	27,000	26,033	18,000	14,796	41,000

NOTES:
ND = Compound Not Detected
NE = Well Not Existing
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GROUNDWATER TECHNOLOGY

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS
FORMER ASHLAND CHEMICAL IC&S SITE
221 FOUNDRY STREET
NEWARK, NEW JERSEY
ISRA CASE NO. 88695

	MW-3					
	Mar-89	Oct-91	Sep-92	Apr-93	Nov-93	Apr-94
VOLATILE ORGANIC COMPOUNDS (ug/L)						
Halogenated VOCs Detected						
Chlorobenzene	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	21 J	ND
Trichloroethene	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND	ND	ND
TOTAL HALOGENATED VOCs	ND	ND	ND	ND	21	ND
Aromatic VOCs Detected						
Benzene	4,000	2,700	5,200	3,500	480	5,300
Toluene	ND	ND	6.7	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND
Xylenes (Total)	260	ND	55.0	ND	ND	ND
TOTAL BTEX	4,260	2,700	5,262	3,500	480	5,300
TOTAL VOCs	4,260	2,700	5,262	3,500	501	5,300

NOTES:
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GROUNDWATER TECHNOLOGY

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS
FORMER ASHLAND CHEMICAL IC&S SITE
221 FOUNDRY STREET
NEWARK, NEW JERSEY
ISRA CASE NO. 88695

	MW-4					
	Mar-89	Oct-91	Sep-92	Apr-93	Nov-93	Apr-94
VOLATILE ORGANIC COMPOUNDS (ug/L)						
Halogenated VOCs Detected						
Chlorobenzene	ND	--	--	--	--	--
Chloroethane	ND	--	--	--	--	--
Chloromethane	ND	--	--	--	--	--
1,4-Dichlorobenzene	ND	--	--	--	--	--
1,1-Dichloroethane	ND	--	--	--	--	--
1,2-Dichloroethane	ND	--	--	--	--	--
1,1-Dichloroethene	ND	--	--	--	--	--
1,2-Dichloroethene (total)	ND	--	--	--	--	--
1,2-Dichloropropane	ND	--	--	--	--	--
Methylene Chloride	ND	--	--	--	--	--
Tetrachloroethene	ND	--	--	--	--	--
1,1,1-Trichloroethane	ND	--	--	--	--	--
Trichloroethene	ND	--	--	--	--	--
Trichlorofluoromethane	ND	--	--	--	--	--
Vinyl Chloride	ND	--	--	--	--	--
TOTAL HALOGENATED VOCs	ND	--	--	--	--	--
Aromatic VOCs Detected						
Benzene	28.0	--	--	--	--	--
Toluene	ND	--	--	--	--	--
Ethylbenzene	ND	--	--	--	--	--
Xylenes (Total)	ND	--	--	--	--	--
TOTAL BTEX	28.0	--	--	--	--	--
TOTAL VOCs	28.0	--	--	--	--	--

NOTES:
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GROUNDWATER TECHNOLOGY

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS
FORMER ASHLAND CHEMICAL IC&S SITE
221 FOUNDRY STREET
NEWARK, NEW JERSEY
ISRA CASE NO. 88695

	MW-4					
	Mar-89	Oct-91	Sep-92	Apr-93	Nov-93	Apr-94
VOLATILE ORGANIC COMPOUNDS (ug/L)						
Halogenated VOCs Detected						
Chlorobenzene	ND	--	--	--	--	--
Chloroethane	ND	--	--	--	--	--
Chloromethane	ND	--	--	--	--	--
1,4-Dichlorobenzene	ND	--	--	--	--	--
1,1-Dichloroethane	ND	--	--	--	--	--
1,2-Dichloroethane	ND	--	--	--	--	--
1,1-Dichloroethene	ND	--	--	--	--	--
1,2-Dichloroethene (total)	ND	--	--	--	--	--
1,2-Dichloropropane	ND	--	--	--	--	--
Methylene Chloride	ND	--	--	--	--	--
Tetrachloroethene	ND	--	--	--	--	--
1,1,1-Trichloroethane	ND	--	--	--	--	--
Trichloroethene	ND	--	--	--	--	--
Trichlorofluoromethane	ND	--	--	--	--	--
Vinyl Chloride	ND	--	--	--	--	--
TOTAL HALOGENATED VOCs	ND	--	--	--	--	--
Aromatic VOCs Detected						
Benzene	28.0	--	--	--	--	--
Toluene	ND	--	--	--	--	--
Ethylbenzene	ND	--	--	--	--	--
Xylenes (Total)	ND	--	--	--	--	--
TOTAL BTEX	28.0	--	--	--	--	--
TOTAL VOCs	28.0	--	--	--	--	--

NOTES:
ND = Compound Not Detected
NE = Well Not Existing
-- = Well Not Sampled

GROUNDWATER TECHNOLOGY

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS
FORMER ASHLAND CHEMICAL IC&S SITE
221 FOUNDRY STREET
NEWARK, NEW JERSEY
ISRA CASE NO. 88695

	MW-5					
	Mar-89	Oct-91	Sep-92	Apr-93	Nov-93	Apr-94
VOLATILE ORGANIC COMPOUNDS (ug/L)						
Halogenated VOCs Detected						
Chlorobenzene	ND	ND	ND	ND	ND	ND
Chloroethane	ND	1,500	820	ND	950 J	940 J
Chloromethane	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	3,800	ND	160	1,800	ND	1,400 J
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	620 J	ND
Methylene Chloride	ND	ND	ND	ND	1,800	1,700 J
Tetrachloroethene	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND
Trichloroethylene	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	410	ND	ND
Vinyl Chloride	ND	ND	ND	ND	ND	ND
TOTAL HALOGENATED VOCs	3,800	1,500	980	2,210	3,370	4,040
Aromatic VOCs Detected						
Benzene	90,000	68,000	61,000	53,000	72,000	85,000
Toluene	3,300	ND	210	ND	180 J	ND
Ethylbenzene	ND	ND	ND	ND	340 J	ND
Xylenes (Total)	ND	1,400	1,600	1,100	1,600	1,500 J
TOTAL BTEX	93,300	69,400	62,810	54,100	74,120	86,500
TOTAL VOCs	97,100	70,900	63,790	56,310	77,490	90,540

NOTES:

ND = Compound Not Detected

NE = Well Not Existing

-- = Well Not Sampled

GROUNDWATER TECHNOLOGY

842600200

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS
FORMER ASHLAND CHEMICAL IC&S SITE
221 FOUNDRY STREET
NEWARK, NEW JERSEY
ISRA CASE NO. 88695

	MW-5B					
	Mar-89	Oct-91	Sep-92	Apr-93	Nov-93	Apr-94
VOLATILE ORGANIC COMPOUNDS (ug/L)						
Halogenated VOCs Detected						
Chlorobenzene	NE	NE	ND	ND	ND	ND
Chloroethane	NE	NE	53.0	19.0	150	4.1
Chloromethane	NE	NE	ND	ND	ND	ND
1,4-Dichlorobenzene	NE	NE	ND	ND	ND	ND
1,1-Dichloroethane	NE	NE	79.0	11.0	10	7.7
1,2-Dichloroethane	NE	NE	ND	ND	ND	ND
1,1-Dichloroethene	NE	NE	ND	ND	ND	ND
1,2-Dichloroethene (total)	NE	NE	ND	ND	ND	ND
1,2-Dichloropropane	NE	NE	ND	ND	ND	ND
Methylene Chloride	NE	NE	ND	ND	ND	ND
Tetrachloroethene	NE	NE	ND	ND	ND	ND
1,1,1-Trichloroethane	NE	NE	ND	ND	ND	ND
Trichloroethylene	NE	NE	ND	ND	ND	ND
Trichlorofluoromethane	NE	NE	ND	ND	ND	ND
Vinyl Chloride	NE	NE	ND	ND	ND	ND
TOTAL HALOGENATED VOCs	NE	NE	132	30.0	160	12
Aromatic VOCs Detected						
Benzene	NE	NE	4,800	260	21	37
Toluene	NE	NE	14.0	ND	ND	1.2
Ethylbenzene	NE	NE	ND	22.0	1.2 J	2.2
Xylenes (Total)	NE	NE	71.0	34.0	ND	ND
TOTAL BTEX	NE	NE	4,885	316	22	40
TOTAL VOCs	NE	NE	5,017	346	182	52

NOTES:
ND = Compound Not Detected
NE = Well Not Existing
-- = Well Not Sampled

GROUNDWATER TECHNOLOGY

842600201

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS
FORMER ASHLAND CHEMICAL IC&S SITE
221 FOUNDRY STREET
NEWARK, NEW JERSEY
ISRA CASE NO. 88695

	MW-6					
	Mar-89	Oct-91	Sep-92	Apr-93	Nov-93	Apr-94
VOLATILE ORGANIC COMPOUNDS (ug/L)						
Halogenated VOCs Detected						
Chlorobenzene	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	350 J
Tetrachloroethene	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	66 JB	ND
Trichloroethylene	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND	ND	ND
TOTAL HALOGENATED VOCs	ND	ND	ND	ND	66	350
Aromatic VOCs Detected						
Benzene	23,000	18,000	21,000	31,000	7,900	17,000
Toluene	ND	ND	32.0	ND	31 J	ND
Ethylbenzene	ND	ND	ND	ND	17 J	ND
Xylenes (Total)	ND	ND	130	ND	90 J	ND
TOTAL BTEX	23,000	18,000	21,162	31,000	8,038	17,000
TOTAL VOCs	23,000	18,000	21,162	31,000	8,104	17,350

NOTES:
ND = Compound Not Detected
NE = Well Not Existing
-- = Well Not Sampled

GROUNDWATER TECHNOLOGY

842600202

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS
FORMER ASHLAND CHEMICAL IC&S SITE
221 FOUNDRY STREET
NEWARK, NEW JERSEY
ISRA CASE NO. 88695

	MW-7					
	Mar-89	Oct-91	Sep-92	Apr-93	Nov-93	Apr-94
VOLATILE ORGANIC COMPOUNDS (ug/L)						
Halogenated VOCs Detected						
Chlorobenzene	ND	ND	--	--	--	--
Chloroethane	ND	ND	--	--	--	--
Chloromethane	ND	ND	--	--	--	--
1,4-Dichlorobenzene	ND	ND	--	--	--	--
1,1-Dichloroethane	ND	ND	--	--	--	--
1,2-Dichloroethane	ND	ND	--	--	--	--
1,1-Dichloroethene	ND	ND	--	--	--	--
1,2-Dichloroethene (total)	ND	ND	--	--	--	--
1,2-Dichloropropane	ND	ND	--	--	--	--
Methylene Chloride	ND	ND	--	--	--	--
Tetrachloroethene	ND	ND	--	--	--	--
1,1,1-Trichloroethane	ND	ND	--	--	--	--
Trichloroethylene	ND	ND	--	--	--	--
Trichlorofluoromethane	ND	ND	--	--	--	--
Vinyl Chloride	ND	ND	--	--	--	--
TOTAL HALOGENATED VOCs	ND	ND	--	--	--	--
Aromatic VOCs Detected						
Benzene	ND	ND	--	--	--	--
Toluene	ND	ND	--	--	--	--
Ethylbenzene	ND	ND	--	--	--	--
Xylenes (Total)	ND	ND	--	--	--	--
TOTAL BTEX	ND	ND	--	--	--	--
TOTAL VOCs	ND	ND	--	--	--	--

NOTES:
ND = Compound Not Detected
NE = Well Not Existing
-- = Well Not Sampled

GROUNDWATER TECHNOLOGY

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS
FORMER ASHLAND CHEMICAL IC&S SITE
221 FOUNDRY STREET
NEWARK, NEW JERSEY
ISRA CASE NO. 88695

	MW-8					
	Mar-89	Oct-91	Sep-92	Apr-93	Nov-93	Apr-94
VOLATILE ORGANIC COMPOUNDS (ug/L)						
Halogenated VOCs Detected						
Chlorobenzene	ND	ND	--	--	--	--
Chloroethane	ND	ND	--	--	--	--
Chloromethane	ND	ND	--	--	--	--
1,4-Dichlorobenzene	ND	ND	--	--	--	--
1,1-Dichloroethane	ND	ND	--	--	--	--
1,2-Dichloroethane	ND	ND	--	--	--	--
1,1-Dichloroethene	ND	ND	--	--	--	--
1,2-Dichloroethene (total)	ND	ND	--	--	--	--
1,2-Dichloropropane	ND	ND	--	--	--	--
Methylene Chloride	ND	ND	--	--	--	--
Tetrachloroethene	ND	ND	--	--	--	--
1,1,1-Trichloroethane	ND	ND	--	--	--	--
Trichloroethylene	ND	ND	--	--	--	--
Trichlorofluoromethane	ND	ND	--	--	--	--
Vinyl Chloride	ND	ND	--	--	--	--
TOTAL HALOGENATED VOCs	ND	ND	--	--	--	--
Aromatic VOCs Detected						
Benzene	ND	170	--	--	--	--
Toluene	ND	ND	--	--	--	--
Ethylbenzene	ND	ND	--	--	--	--
Xylenes (Total)	ND	ND	--	--	--	--
TOTAL BTEX	ND	170	--	--	--	--
TOTAL VOCs	ND	170	--	--	--	--

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GROUNDWATER TECHNOLOGY

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS
FORMER ASHLAND CHEMICAL IC&S SITE
221 FOUNDRY STREET
NEWARK, NEW JERSEY
ISRA CASE NO. 88695

	MW-9					
	Mar-89	Oct-91	Sep-92	Apr-93	Nov-93	Apr-94
VOLATILE ORGANIC COMPOUNDS (ug/L)						
Halogenated VOCs Detected						
Chlorobenzene	ND	--	ND	ND	ND	ND
Chloroethane	ND	--	ND	ND	ND	ND
Chloromethane	ND	--	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	--	ND	ND	ND	ND
1,1-Dichloroethane	ND	--	1.4	0.30	0.85 J	ND
1,2-Dichloroethane	ND	--	ND	1.0	0.73 J	ND
1,1-Dichloroethene	ND	--	ND	ND	ND	ND
1,2-Dichloroethene (total)	ND	--	ND	0.20	ND	ND
1,2-Dichloropropane	ND	--	ND	ND	ND	ND
Methylene Chloride	ND	--	ND	ND	ND	ND
Tetrachloroethene	ND	--	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	--	ND	ND	ND	ND
Trichloroethylene	ND	--	ND	ND	ND	ND
Trichlorofluoromethane	ND	--	ND	ND	ND	ND
Vinyl Chloride	ND	--	ND	ND	ND	ND
TOTAL HALOGENATED VOCs	ND	--	1.4	1.5	1.58	ND
Aromatic VOCs Detected						
Benzene	ND	--	8.3	0.80	4.5	1.3
Toluene	ND	--	3.2	0.50	0.90 J	0.32 J
Ethylbenzene	ND	--	3.7	6.0	0.17 J	ND
Xylenes (Total)	34.0	--	140	110	55	14
TOTAL BTEX	34.0	--	155	117	61	16
TOTAL VOCs	34.0	--	157	119	62	16

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GROUNDWATER TECHNOLOGY

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS
FORMER ASHLAND CHEMICAL IC&S SITE
221 FOUNDRY STREET
NEWARK, NEW JERSEY
ISRA CASE NO. 88695

	MW-10					
	Mar-89	Oct-91	Sep-92	Apr-93	Nov-93	Apr-94
VOLATILE ORGANIC COMPOUNDS (ug/L)						
Halogenated VOCs Detected						
Chlorobenzene	ND	ND	--	--	--	--
Chloroethane	ND	ND	--	--	--	--
Chloromethane	ND	ND	--	--	--	--
1,4-Dichlorbenzene	ND	ND	--	--	--	--
1,1-Dichloroethane	ND	ND	--	--	--	--
1,2-Dichloroethane	ND	ND	--	--	--	--
1,1-Dichloroethene	ND	ND	--	--	--	--
1,2-Dichloroethene (total)	ND	ND	--	--	--	--
1,2-Dichloropropane	ND	ND	--	--	--	--
Methylene Chloride	ND	ND	--	--	--	--
Tetrachloroethene	ND	ND	--	--	--	--
1,1,1-Trichloroethane	ND	ND	--	--	--	--
Trichloroethylene	ND	ND	--	--	--	--
Trichlorofluoromethane	ND	ND	--	--	--	--
Vinyl Chloride	ND	ND	--	--	--	--
TOTAL HALOGENATED VOCs	ND	ND	--	--	--	--
Aromatic VOCs Detected						
Benzene	ND	ND	--	--	--	--
Toluene	ND	ND	--	--	--	--
Ethylbenzene	ND	ND	--	--	--	--
Xylenes (Total)	ND	ND	--	--	--	--
TOTAL BTEX	ND	ND	--	--	--	--
TOTAL VOCs	ND	ND	--	--	--	--

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GROUNDWATER TECHNOLOGY

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS
FORMER ASHLAND CHEMICAL IC&S SITE
221 FOUNDRY STREET
NEWARK, NEW JERSEY
ISRA CASE NO. 88695

	MW-11					
	Mar-89	Oct-91	Sep-92	Apr-93	Nov-93	Apr-94
VOLATILE ORGANIC COMPOUNDS (ug/L)						
Halogenated VOCs Detected						
Chlorobenzene	ND	--	NE	NE	NE	NE
Chloroethane	ND	--	NE	NE	NE	NE
Chloromethane	ND	--	NE	NE	NE	NE
1,4-Dichlorobenzene	ND	--	NE	NE	NE	NE
1,1-Dichloroethane	ND	--	NE	NE	NE	NE
1,2-Dichloroethane	ND	--	NE	NE	NE	NE
1,1-Dichloroethene	ND	--	NE	NE	NE	NE
1,2-Dichloroethene (total)	ND	--	NE	NE	NE	NE
1,2-Dichloropropane	ND	--	NE	NE	NE	NE
Methylene Chloride	ND	--	NE	NE	NE	NE
Tetrachloroethene	ND	--	NE	NE	NE	NE
1,1,1-Trichloroethane	ND	--	NE	NE	NE	NE
Trichloroethylene	ND	--	NE	NE	NE	NE
Trichlorofluoromethane	ND	--	NE	NE	NE	NE
Vinyl Chloride	ND	--	NE	NE	NE	NE
TOTAL HALOGENATED VOCs	ND	--	NE	NE	NE	NE
Aromatic VOCs Detected						
Benzene	ND	--	NE	NE	NE	NE
Toluene	ND	--	NE	NE	NE	NE
Ethylbenzene	ND	--	NE	NE	NE	NE
Xylenes (Total)	ND	--	NE	NE	NE	NE
TOTAL BTEX	ND	--	NE	NE	NE	NE
TOTAL VOCs	ND	--	NE	NE	NE	NE

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GROUNDWATER TECHNOLOGY

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS
FORMER ASHLAND CHEMICAL IC&S SITE
221 FOUNDRY STREET
NEWARK, NEW JERSEY
ISRA CASE NO. 88695

	MW-12					
	Mar-89	Oct-91	Sep-92	Apr-93	Nov-93	Apr-94
VOLATILE ORGANIC COMPOUNDS (ug/L)						
Halogenated VOCs Detected						
Chlorobenzene	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND
Chloromethane	ND	ND	25,000	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	18,000	9,800	15,000	5,700	12,000	14,000
1,2-Dichloroethane	110,000	12,000	ND	3,000	3,600 J	5,200
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	130,000	120,000	170,000	140,000	280,000	220,000
1,2-Dichloropropane	75,000	ND	ND	ND	8,700	8,600
Methylene Chloride	50,000	ND	ND	27,000	8,300	7,900
Tetrachloroethene	11,000	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	6,000	ND	ND	ND	4,500 J	2,200 J
Trichloroethylene	15,000	ND	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND
Vinyl Chloride	ND	6,200	ND	ND	ND	2,600 J
TOTAL HALOGENATED VOCs	415,000	148,000	210,000	175,700	317,100	260,500
Aromatic VOCs Detected						
Benzene	51,000	32,000	36,000	25,000	34,000	37,000
Toluene	28,000	22,000	23,000	14,000	22,000	24,000
Ethylbenzene	ND	ND	ND	ND	1,100 J	900 J
Xylenes (Total)	10,000	ND	ND	ND	10,000	7,500 J
TOTAL BTEX	89,000	54,000	59,000	39,000	67,100	69,400
TOTAL VOCs	504,000	202,000	269,000	214,700	384,200	329,900

NOTES:

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GROUNDWATER TECHNOLOGY

842600208

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS
FORMER ASHLAND CHEMICAL IC&S SITE
221 FOUNDRY STREET
NEWARK, NEW JERSEY
ISRA CASE NO. 88695

	MW-12B					
	Mar-89	Oct-91	Sep-92	Apr-93	Nov-93	Apr-94
VOLATILE ORGANIC COMPOUNDS (ug/L)						
Halogenated VOCs Detected						
Chlorobenzene	NE	NE	ND	ND	ND	ND
Chloroethane	NE	NE	ND	96.0	6.1	71
Chloromethane	NE	NE	44.0	ND	ND	ND
1,4-Dichlorobenzene	NE	NE	ND	ND	ND	ND
1,1-Dichloroethane	NE	NE	ND	ND	ND	17
1,2-Dichloroethane	NE	NE	ND	0.90	0.55 J	ND
1,1-Dichloroethene	NE	NE	ND	ND	ND	ND
1,2-Dichloroethene (total)	NE	NE	8.8	3.6	1.6	34
1,2-Dichloropropane	NE	NE	ND	ND	ND	ND
Methylene Chloride	NE	NE	27.0	ND	0.88 J	ND
Tetrachloroethene	NE	NE	ND	ND	ND	ND
1,1,1-Trichloroethane	NE	NE	ND	ND	ND	ND
Trichloroethylene	NE	NE	ND	ND	ND	ND
Trichlorofluoromethane	NE	NE	ND	ND	ND	ND
Vinyl Chloride	NE	NE	ND	ND	ND	ND
TOTAL HALOGENATED VOCs	NE	NE	79.8	100.5	9.1	122
Aromatic VOCs Detected						
Benzene	NE	NE	110	220	4.7	780
Toluene	NE	NE	4.7	ND	0.08 J	37
Ethylbenzene	NE	NE	ND	ND	ND	ND
Xylenes (Total)	NE	NE	ND	ND	ND	33
TOTAL BTEX	NE	NE	115	220	4.8	850
TOTAL VOCs	NE	NE	195	321	13.9	972

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GROUNDWATER TECHNOLOGY

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS
FORMER ASHLAND CHEMICAL IC&S SITE
221 FOUNDRY STREET
NEWARK, NEW JERSEY
ISRA CASE NO. 88695

	MW-13					
	Mar-89	Oct-91	Sep-92	Apr-93	Nov-93	Apr-94
VOLATILE ORGANIC COMPOUNDS (ug/L)						
Halogenated VOCs Detected						
Chlorobenzene	ND	--	--	--	--	--
Chloroethane	ND	--	--	--	--	--
Chloromethane	ND	--	--	--	--	--
1,4-Dichlorobenzene	ND	--	--	--	--	--
1,1-Dichloroethane	ND	--	--	--	--	--
1,2-Dichloroethane	ND	--	--	--	--	--
1,1-Dichloroethene	ND	--	--	--	--	--
1,2-Dichloroethene (total)	ND	--	--	--	--	--
1,2-Dichloropropane	ND	--	--	--	--	--
Methylene Chloride	ND	--	--	--	--	--
Tetrachloroethene	ND	--	--	--	--	--
1,1,1-Trichloroethane	ND	--	--	--	--	--
Trichloroethylene	ND	--	--	--	--	--
Trichlorofluoromethane	ND	--	--	--	--	--
Vinyl Chloride	ND	--	--	--	--	--
TOTAL HALOGENATED VOCs	ND	--	--	--	--	--
Aromatic VOCs Detected						
Benzene	14.0	--	--	--	--	--
Toluene	60.0	--	--	--	--	--
Ethylbenzene	ND	--	--	--	--	--
Xylenes (Total)	ND	--	--	--	--	--
TOTAL BTEX	74.0	--	--	--	--	--
TOTAL VOCs	74.0	--	--	--	--	--

NOTES:

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GROUNDWATER TECHNOLOGY

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS
FORMER ASHLAND CHEMICAL IC&S SITE
221 FOUNDRY STREET
NEWARK, NEW JERSEY
ISRA CASE NO. 88695

	MW-13B					
	Mar-89	Oct-91	Sep-92	Apr-93	Nov-93	Apr-94
VOLATILE ORGANIC COMPOUNDS (ug/L)						
Halogenated VOCs Detected						
Chlorobenzene	NE	NE	--	--	--	--
Chloroethane	NE	NE	--	--	--	--
Chloromethane	NE	NE	--	--	--	--
1,4-Dichlorobenzene	NE	NE	--	--	--	--
1,1-Dichloroethane	NE	NE	--	--	--	--
1,2-Dichloroethane	NE	NE	--	--	--	--
1,1-Dichloroethene	NE	NE	--	--	--	--
1,2-Dichloroethene (total)	NE	NE	--	--	--	--
1,2-Dichloropropane	NE	NE	--	--	--	--
Methylene Chloride	NE	NE	--	--	--	--
Tetrachloroethene	NE	NE	--	--	--	--
1,1,1-Trichloroethane	NE	NE	--	--	--	--
Trichloroethylene	NE	NE	--	--	--	--
Trichlorofluoromethane	NE	NE	--	--	--	--
Vinyl Chloride	NE	NE	--	--	--	--
TOTAL HALOGENATED VOCs	NE	NE	--	--	--	--
Aromatic VOCs Detected						
Benzene	NE	NE	--	--	--	--
Toluene	NE	NE	--	--	--	--
Ethylbenzene	NE	NE	--	--	--	--
Xylenes (Total)	NE	NE	--	--	--	--
TOTAL BTEX	NE	NE	--	--	--	--
TOTAL VOCs	NE	NE	--	--	--	--

NOTES:
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GROUNDWATER TECHNOLOGY

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS
FORMER ASHLAND CHEMICAL IC&S SITE
221 FOUNDRY STREET
NEWARK, NEW JERSEY
ISRA CASE NO. 88695

	MW-14					
	Mar-89	Oct-91	Sep-92	Apr-93	Nov-93	Apr-94
VOLATILE ORGANIC COMPOUNDS (ug/L)						
Halogenated VOCs Detected						
Chlorobenzene	ND	--	NE	NE	NE	NE
Chloroethane	ND	--	NE	NE	NE	NE
Chloromethane	ND	--	NE	NE	NE	NE
1,4-Dichlorobenzene	ND	--	NE	NE	NE	NE
1,1-Dichloroethane	ND	--	NE	NE	NE	NE
1,2-Dichloroethane	ND	--	NE	NE	NE	NE
1,1-Dichloroethene	ND	--	NE	NE	NE	NE
1,2-Dichloroethene (total)	ND	--	NE	NE	NE	NE
1,2-Dichloropropane	ND	--	NE	NE	NE	NE
Methylene Chloride	ND	--	NE	NE	NE	NE
Tetrachloroethene	ND	--	NE	NE	NE	NE
1,1,1-Trichloroethane	ND	--	NE	NE	NE	NE
Trichloroethylene	ND	--	NE	NE	NE	NE
Trichlorofluoromethane	ND	--	NE	NE	NE	NE
Vinyl Chloride	ND	--	NE	NE	NE	NE
TOTAL HALOGENATED VOCs	ND	--	NE	NE	NE	NE
Aromatic VOCs Detected						
Benzene	ND	--	NE	NE	NE	NE
Toluene	ND	--	NE	NE	NE	NE
Ethylbenzene	ND	--	NE	NE	NE	NE
Xylenes (Total)	ND	--	NE	NE	NE	NE
TOTAL BTEX	ND	--	NE	NE	NE	NE
TOTAL VOCs	ND	--	NE	NE	NE	NE

NOTES:

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-- = Well Not Sampled

GROUNDWATER TECHNOLOGY

842600212

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS
FORMER ASHLAND CHEMICAL IC&S SITE
221 FOUNDRY STREET
NEWARK, NEW JERSEY
ISRA CASE NO. 88695

	MW-15					
	Mar-89	Oct-91	Sep-92	Apr-93	Nov-93	Apr-94
VOLATILE ORGANIC COMPOUNDS (ug/L)						
Halogenated VOCs Detected						
Chlorobenzene	ND	--	NE	NE	NE	NE
Chloroethane	ND	--	NE	NE	NE	NE
Chloromethane	ND	--	NE	NE	NE	NE
1,4-Dichlorobenzene	ND	--	NE	NE	NE	NE
1,1-Dichloroethane	ND	--	NE	NE	NE	NE
1,2-Dichloroethane	ND	--	NE	NE	NE	NE
1,1-Dichloroethene	ND	--	NE	NE	NE	NE
1,2-Dichloroethene (total)	ND	--	NE	NE	NE	NE
1,2-Dichloropropane	ND	--	NE	NE	NE	NE
Methylene Chloride	ND	--	NE	NE	NE	NE
Tetrachloroethene	ND	--	NE	NE	NE	NE
1,1,1-Trichloroethane	ND	--	NE	NE	NE	NE
Trichloroethylene	ND	--	NE	NE	NE	NE
Trichlorofluoromethane	ND	--	NE	NE	NE	NE
Vinyl Chloride	ND	--	NE	NE	NE	NE
TOTAL HALOGENATED VOCs	ND	--	NE	NE	NE	NE
Aromatic VOCs Detected						
Benzene	ND	--	NE	NE	NE	NE
Toluene	ND	--	NE	NE	NE	NE
Ethylbenzene	ND	--	NE	NE	NE	NE
Xylenes (Total)	ND	--	NE	NE	NE	NE
TOTAL BTEX	ND	--	NE	NE	NE	NE
TOTAL VOCs	ND	--	NE	NE	NE	NE

NOTES:

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GROUNDWATER TECHNOLOGY

842600213

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS
FORMER ASHLAND CHEMICAL IC&S SITE
221 FOUNDRY STREET
NEWARK, NEW JERSEY
ISRA CASE NO. 88695

	MW-16					
	Mar-89	Oct-91	Sep-92	Apr-93	Nov-93	Apr-94
VOLATILE ORGANIC COMPOUNDS (ug/L)						
Halogenated VOCs Detected						
Chlorobenzene	ND	--	ND	ND	ND	ND
Chloroethane	ND	--	ND	ND	ND	ND
Chloromethane	ND	--	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	--	ND	ND	ND	ND
1,1-Dichloroethane	ND	--	ND	ND	ND	710 J
1,2-Dichloroethane	ND	--	ND	ND	ND	ND
1,1-Dichloroethene	ND	--	ND	ND	ND	ND
1,2-Dichloroethene (total)	ND	--	88,000	110,000	130,000	100,000
1,2-Dichloropropane	ND	--	ND	ND	1,100 J	ND
Methylene Chloride	ND	--	ND	ND	2,600	ND
Tetrachloroethene	ND	--	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	--	ND	ND	2,000 J	ND
Trichloroethylene	9,000	--	ND	ND	ND	ND
Trichlorofluoromethane	ND	--	ND	ND	ND	ND
Vinyl Chloride	115,000	--	19,000	30,000	16,000	14,000
TOTAL HALOGENATED VOCs	124,000	--	107,000	140,000	151,700	114,710
Aromatic VOCs Detected						
Benzene	3,100	--	2,300	2,300	2,800	1,700 J
Toluene	30,500	--	24,000	31,000	22,000	26,000
Ethylbenzene	ND	--	1,500	1,800	990 J	890 J
Xylenes (Total)	9,000	--	6,900	8,600	6,000	3,800
TOTAL BTEX	42,600	--	34,700	43,700	31,790	32,390
TOTAL VOCs	166,600	--	141,700	183,700	183,490	147,100

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GROUNDWATER TECHNOLOGY

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS
FORMER ASHLAND CHEMICAL IC&S SITE
221 FOUNDRY STREET
NEWARK, NEW JERSEY
ISRA CASE NO. 88695

	MW-17					
	Mar-89	Oct-91	Sep-92	Apr-93	Nov-93	Apr-94
VOLATILE ORGANIC COMPOUNDS (ug/L)						
Halogenated VOCs Detected						
Chlorobenzene	ND	ND	--	--	--	--
Chloroethane	ND	8.8	--	--	--	--
Chloromethane	ND	ND	--	--	--	--
1,4-Dichlorobenzene	ND	ND	--	--	--	--
1,1-Dichloroethane	ND	ND	--	--	--	--
1,2-Dichloroethane	ND	ND	--	--	--	--
1,1-Dichloroethene	ND	ND	--	--	--	--
1,2-Dichloroethene (total)	ND	ND	--	--	--	--
1,2-Dichloropropane	ND	ND	--	--	--	--
Methylene Chloride	ND	ND	--	--	--	--
Tetrachloroethene	ND	ND	--	--	--	--
1,1,1-Trichloroethane	ND	ND	--	--	--	--
Trichloroethylene	ND	ND	--	--	--	--
Trichlorofluoromethane	ND	ND	--	--	--	--
Vinyl Chloride	ND	ND	--	--	--	--
TOTAL HALOGENATED VOCs	ND	8.8	--	--	--	--
Aromatic VOCs Detected						
Benzene	ND	ND	--	--	--	--
Toluene	ND	ND	--	--	--	--
Ethylbenzene	ND	1.7	--	--	--	--
Xylenes (Total)	ND	ND	--	--	--	--
TOTAL BTEX	ND	1.7	--	--	--	--
TOTAL VOCs	ND	10.5	--	--	--	--

NOTES:
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-- = Well Not Sampled

GROUNDWATER TECHNOLOGY

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS
FORMER ASHLAND CHEMICAL IC&S SITE
221 FOUNDRY STREET
NEWARK, NEW JERSEY
ISRA CASE NO. 88695

	MW-18					
	Mar-89	Oct-91	Sep-92	Apr-93	Nov-93	Apr-94
VOLATILE ORGANIC COMPOUNDS (ug/L)						
Halogenated VOCs Detected						
Chlorobenzene	ND	--	ND	ND	ND	ND
Chloroethane	16,000	--	6500	57,000	51,000	13,000
Chloromethane	ND	--	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	--	ND	ND	ND	ND
1,1-Dichloroethane	ND	--	16,000	3,600	2,800	130 J
1,2-Dichloroethane	14,000	--	ND	ND	ND	ND
1,1-Dichloroethene	ND	--	ND	ND	ND	ND
1,2-Dichloroethene (total)	2,300	--	4,200	1,400	1,300	330
1,2-Dichloropropane	ND	--	ND	ND	ND	ND
Methylene Chloride	ND	--	ND	ND	ND	ND
Tetrachloroethene	ND	--	ND	ND	ND	ND
1,1,1-Trichloroethane	5,100	--	2,900	230	ND	56 J
Trichloroethylene	ND	--	ND	ND	ND	ND
Trichlorofluoromethane	ND	--	ND	ND	ND	ND
Vinyl Chloride	ND	--	490	ND	1,400	470
TOTAL HALOGENATED VOCs	37,400	--	30,090	62,230	56,500	13,986
Aromatic VOCs Detected						
Benzene	14,000	--	1,500	870	2,400	6,700
Toluene	6,700	--	10,000	6,700	7,800	7,600
Ethylbenzene	790	--	500	240	590 J	420
Xylenes (Total)	47,000	--	4,400	4,700	5,200	5,300
TOTAL BTEX	68,490	--	16,400	12,510	15,990	20,020
TOTAL VOCs	105,890	--	46,490	74,740	72,490	34,006

NOTES:
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GROUNDWATER TECHNOLOGY

842600216

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS
FORMER ASHLAND CHEMICAL IC&S SITE
221 FOUNDRY STREET
NEWARK, NEW JERSEY
ISRA CASE NO. 88695

	MW-19					
	Mar-89	Oct-91	Sep-92	Apr-93	Nov-93	Apr-94
VOLATILE ORGANIC COMPOUNDS (ug/L)						
Halogenated VOCs Detected						
Chlorobenzene	ND	--	NE	NE	NE	NE
Chloroethane	ND	--	NE	NE	NE	NE
Chloromethane	ND	--	NE	NE	NE	NE
1,4-Dichlorobenzene	ND	--	NE	NE	NE	NE
1,1-Dichloroethane	ND	--	NE	NE	NE	NE
1,2-Dichloroethane	ND	--	NE	NE	NE	NE
1,1-Dichloroethene	ND	--	NE	NE	NE	NE
1,2-Dichloroethene (total)	ND	--	NE	NE	NE	NE
1,2-Dichloropropane	ND	--	NE	NE	NE	NE
Methylene Chloride	ND	--	NE	NE	NE	NE
Tetrachloroethene	ND	--	NE	NE	NE	NE
1,1,1-Trichloroethane	ND	--	NE	NE	NE	NE
Trichloroethylene	ND	--	NE	NE	NE	NE
Trichlorofluoromethane	ND	--	NE	NE	NE	NE
Vinyl Chloride	ND	--	NE	NE	NE	NE
TOTAL HALOGENATED VOCs	ND	--	NE	NE	NE	NE
Aromatic VOCs Detected						
Benzene	ND	--	NE	NE	NE	NE
Toluene	ND	--	NE	NE	NE	NE
Ethylbenzene	ND	--	NE	NE	NE	NE
Xylenes (Total)	ND	--	NE	NE	NE	NE
TOTAL BTEX	ND	--	NE	NE	NE	NE
TOTAL VOCs	ND	--	NE	NE	NE	NE

NOTES:
ND = Compound Not Detected
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GROUNDWATER TECHNOLOGY

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS
FORMER ASHLAND CHEMICAL IC&S SITE
221 FOUNDRY STREET
NEWARK, NEW JERSEY
ISRA CASE NO. 88695

	MW-20					
	Mar-89	Oct-91	Sep-92	Apr-93	Nov-93	Apr-94
VOLATILE ORGANIC COMPOUNDS (ug/L)						
Halogenated VOCs Detected						
Chlorobenzene	ND	ND	--	--	--	--
Chloroethane	ND	33.0	--	--	--	--
Chloromethane	ND	ND	--	--	--	--
1,4-Dichlorobenzene	ND	ND	--	--	--	--
1,1-Dichloroethane	ND	ND	--	--	--	--
1,2-Dichloroethane	ND	ND	--	--	--	--
1,1-Dichloroethene	ND	ND	--	--	--	--
1,2-Dichloroethene (total)	ND	ND	--	--	--	--
1,2-Dichloropropane	ND	ND	--	--	--	--
Methylene Chloride	ND	ND	--	--	--	--
Tetrachloroethene	ND	ND	--	--	--	--
1,1,1-Trichloroethane	ND	ND	--	--	--	--
Trichloroethylene	ND	ND	--	--	--	--
Trichlorofluoromethane	ND	ND	--	--	--	--
Vinyl Chloride	ND	ND	--	--	--	--
TOTAL HALOGENATED VOCs	ND	33.0	--	--	--	--
Aromatic VOCs Detected						
Benzene	ND	ND	--	--	--	--
Toluene	ND	ND	--	--	--	--
Ethylbenzene	ND	ND	--	--	--	--
Xylenes (Total)	ND	ND	--	--	--	--
TOTAL BTEX	ND	ND	--	--	--	--
TOTAL VOCs	ND	33.0	--	--	--	--

NOTES:

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GROUNDWATER TECHNOLOGY

842600218

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS
FORMER ASHLAND CHEMICAL IC&S SITE
221 FOUNDRY STREET
NEWARK, NEW JERSEY
ISRA CASE NO. 88695

	MW-21					
	Mar-89	Oct-91	Sep-92	Apr-93	Nov-93	Apr-94
VOLATILE ORGANIC COMPOUNDS (ug/L)						
Halogenated VOCs Detected						
Chlorobenzene	ND	ND	ND	ND	ND	ND
Chloroethane	ND	39.0	36.0	12.0	54	8.4
Chloromethane	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	1.3	ND	ND
1,2-Dichloroethane	ND	ND	ND	0.40	ND	ND
1,1-Dichloroethene	ND	ND	ND	1.4	ND	ND
1,2-Dichloroethene (total)	26.0	ND	2.6	12.0	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	0.50	ND	ND
Trichloroethylene	ND	ND	ND	1.2	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND
Vinyl Chloride	ND	ND	8.1	18.0	ND	ND
TOTAL HALOGENATED VOCs	26.0	39.0	46.7	46.8	54	8.4
Aromatic VOCs Detected						
Benzene	ND	12.0	8.6	1.2	5.1	5.1
Toluene	ND	ND	ND	0.30	ND	ND
Ethylbenzene	ND	ND	0.70	ND	1.6	ND
Xylenes (Total)	ND	ND	0.80	ND	1.1	ND
TOTAL BTEX	ND	12.0	10.1	1.5	7.8	5.1
TOTAL VOCs	26.0	51.0	56.8	48.3	62	13.5

NOTES:

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GROUNDWATER TECHNOLOGY

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS
FORMER ASHLAND CHEMICAL IC&S SITE
221 FOUNDRY STREET
NEWARK, NEW JERSEY
ISRA CASE NO. 88695

	MW-22					
	Mar-89	Oct-91	Sep-92	Apr-93	Nov-93	Apr-94
VOLATILE ORGANIC COMPOUNDS (ug/L)						
Halogenated VOCs Detected						
Chlorobenzene	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	1.3	ND	ND
Chloromethane	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	ND	ND	ND	0.70	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND
Trichloroethylene	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND	ND	ND
TOTAL HALOGENATED VOCs	ND	ND	ND	2.0	ND	ND
Aromatic VOCs Detected						
Benzene	ND	8.8	7.8	6.1	6.6	4.6
Toluene	ND	3.7	1.5	0.30	0.51 J	0.54 J
Ethylbenzene	ND	1.6	0.70	0.20	0.15 J	1.6
Xylenes (Total)	5,400	2.0	1.7	4.4	3.2	2
TOTAL BTEX	5,400	16.1	11.7	11.0	10.5	8.7
TOTAL VOCs	5,400	16.1	11.7	13.0	10.5	8.7

NOTES:

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GROUNDWATER TECHNOLOGY

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS
FORMER ASHLAND CHEMICAL IC&S SITE
221 FOUNDRY STREET
NEWARK, NEW JERSEY
ISRA CASE NO. 88695

	MW-23					
	Mar-89	Oct-91	Sep-92	Apr-93	Nov-93	Apr-94
VOLATILE ORGANIC COMPOUNDS (ug/L)						
Halogenated VOCs Detected						
Chlorobenzene	ND	ND	--	--	--	--
Chloroethane	ND	ND	--	--	--	--
Chloromethane	ND	ND	--	--	--	--
1,4-Dichlorobenzene	ND	ND	--	--	--	--
1,1-Dichloroethane	ND	ND	--	--	--	--
1,2-Dichloroethane	ND	ND	--	--	--	--
1,1-Dichloroethene	ND	ND	--	--	--	--
1,2-Dichloroethene (total)	9.6	ND	--	--	--	--
1,2-Dichloropropane	ND	ND	--	--	--	--
Methylene Chloride	ND	ND	--	--	--	--
Tetrachloroethene	ND	ND	--	--	--	--
1,1,1-Trichloroethane	ND	ND	--	--	--	--
Trichloroethylene	ND	ND	--	--	--	--
Trichlorofluoromethane	ND	ND	--	--	--	--
Vinyl Chloride	ND	ND	--	--	--	--
TOTAL HALOGENATED VOCs	9.6	ND	--	--	--	--
Aromatic VOCs Detected						
Benzene	12.0	100	--	--	--	--
Toluene	ND	24.0	--	--	--	--
Ethylbenzene	ND	19.0	--	--	--	--
Xylenes (Total)	ND	27.0	--	--	--	--
TOTAL BTEX	12.0	170	--	--	--	--
TOTAL VOCs	21.6	170	--	--	--	--

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GROUNDWATER TECHNOLOGY

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS
FORMER ASHLAND CHEMICAL IC&S SITE
221 FOUNDRY STREET
NEWARK, NEW JERSEY
ISRA CASE NO. 88695

	MW-24					
	Mar-89	Oct-91	Sep-92	Apr-93	Nov-93	Apr-94
VOLATILE ORGANIC COMPOUNDS (ug/L)						
Halogenated VOCs Detected						
Chlorobenzene	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	130	23 J
Chloromethane	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	17,000	9,400	650	620	3,200	960
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	130	540	210	43
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND
Trichloroethylene	ND	ND	54	200	96	28
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND
Vinyl Chloride	37,000	3,400	100	30.0	360	ND
TOTAL HALOGENATED VOCs	54,000	12,800	934	1,390	3,996	1,054
Aromatic VOCs Detected						
Benzene	310	ND	ND	ND	ND	ND
Toluene	2,100	ND	6.4	ND	ND	ND
Ethylbenzene	ND	ND	7.9	ND	5.1 J	ND
Xylenes (Total)	700	ND	14.0	ND	ND	72
TOTAL BTEX	3,110	ND	28.3	ND	5.1	72
TOTAL VOCs	57,110	12,800	962	1,390	4,001	1,126

NOTES:
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GROUNDWATER TECHNOLOGY

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS
FORMER ASHLAND CHEMICAL IC&S SITE
221 FOUNDRY STREET
NEWARK, NEW JERSEY
ISRA CASE NO. 88695

	MW-24B					
	Mar-89	Oct-91	Sep-92	Apr-93	Nov-93	Apr-94
VOLATILE ORGANIC COMPOUNDS (ug/L)						
Halogenated VOCs Detected						
Chlorobenzene	NE	NE	ND	ND	ND	ND
Chloroethane	NE	NE	ND	ND	ND	ND
Chloromethane	NE	NE	60.0	ND	ND	ND
1,4-Dichlorobenzene	NE	NE	ND	ND	ND	ND
1,1-Dichloroethane	NE	NE	36.0	29.0	26 JB	28 J
1,2-Dichloroethane	NE	NE	ND	ND	ND	ND
1,1-Dichloroethene	NE	NE	ND	ND	ND	ND
1,2-Dichloroethene (total)	NE	NE	2,000	2,600	3,000	1,800
1,2-Dichloropropane	NE	NE	ND	ND	ND	ND
Methylene Chloride	NE	NE	ND	ND	ND	ND
Tetrachloroethene	NE	NE	430	300	160	250
1,1,1-Trichloroethane	NE	NE	ND	88.0	ND	ND
Trichloroethylene	NE	NE	1,000	460	340	260
Trichlorofluoromethane	NE	NE	ND	ND	ND	ND
Vinyl Chloride	NE	NE	160	510	530	26 J
TOTAL HALOGENATED VOCs	NE	NE	3,686	3,987	4,056	2,364
Aromatic VOCs Detected						
Benzene	NE	NE	9.0	ND	6.8 J	ND
Toluene	NE	NE	15.0	ND	6.1 J	ND
Ethylbenzene	NE	NE	ND	ND	ND	ND
Xylenes (Total)	NE	NE	ND	ND	ND	20 J
TOTAL BTEX	NE	NE	24.0	ND	12.9	20
TOTAL VOCs	NE	NE	3,710	3,987	4,069	2,384

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GROUNDWATER TECHNOLOGY.

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS
FORMER ASHLAND CHEMICAL IC&S SITE
221 FOUNDRY STREET
NEWARK, NEW JERSEY
ISRA CASE NO. 88695

	MW-25					
	Mar-89	Oct-91	Sep-92	Apr-93	Nov-93	Apr-94
VOLATILE ORGANIC COMPOUNDS (ug/L)						
Halogenated VOCs Detected						
Chlorobenzene	ND	ND	ND	ND	ND	--
Chloroethane	ND	220	940	330	1,500	--
Chloromethane	ND	ND	ND	ND	ND	--
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	--
1,1-Dichloroethane	ND	ND	ND	ND	ND	--
1,2-Dichloroethane	ND	ND	ND	ND	ND	--
1,1-Dichloroethene	ND	ND	ND	ND	ND	--
1,2-Dichloroethene (total)	ND	ND	ND	ND	ND	--
1,2-Dichloropropane	ND	ND	ND	ND	ND	--
Methylene Chloride	ND	ND	ND	ND	ND	--
Tetrachloroethene	ND	ND	ND	ND	ND	--
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	--
Trichloroethylene	ND	ND	ND	ND	ND	--
Trichlorofluoromethane	ND	ND	ND	ND	ND	--
Vinyl Chloride	ND	ND	ND	ND	ND	--
TOTAL HALOGENATED VOCs	ND	220	940	330	1,500	--
Aromatic VOCs Detected						
Benzene	ND	16.0	52.0	ND	11 J	--
Toluene	ND	ND	16.0	ND	ND	--
Ethylbenzene	ND	ND	6.8	ND	ND	--
Xylenes (Total)	ND	ND	ND	ND	ND	--
TOTAL BTEX	ND	16.0	74.8	ND	11	--
TOTAL VOCs	ND	236	1,015	330	1,511	--

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GROUNDWATER TECHNOLOGY

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS
FORMER ASHLAND CHEMICAL IC&S SITE
221 FOUNDRY STREET
NEWARK, NEW JERSEY
ISRA CASE NO. 88695

	MW-26					
	Mar-89	Oct-91	Sep-92	Apr-93	Nov-93	Apr-94
VOLATILE ORGANIC COMPOUNDS (ug/L)						
Halogenated VOCs Detected						
Chlorobenzene	ND	--	ND	ND	ND	--
Chloroethane	ND	--	ND	ND	ND	--
Chloromethane	ND	--	ND	ND	ND	--
1,4-Dichlorobenzene	ND	--	ND	ND	ND	--
1,1-Dichloroethane	ND	--	ND	130	ND	--
1,2-Dichloroethane	ND	--	ND	ND	ND	--
1,1-Dichloroethene	ND	--	ND	ND	ND	--
1,2-Dichloroethene (total)	18,000	--	7,400	7,800	3,300	--
1,2-Dichloropropane	ND	--	ND	35.0	ND	--
Methylene Chloride	ND	--	ND	ND	ND	--
Tetrachloroethene	ND	--	ND	ND	ND	--
1,1,1-Trichloroethane	ND	--	ND	ND	ND	--
Trichloroethylene	ND	--	ND	ND	ND	--
Trichlorofluoromethane	ND	--	ND	ND	ND	--
Vinyl Chloride	22,000	--	3,100	5,000	5,800	--
TOTAL HALOGENATED VOCs	40,000	--	10,500	12,965	9,100	--
Aromatic VOCs Detected						
Benzene	ND	--	340	500	220	--
Toluene	2,300	--	1,100	1,100	1,300	--
Ethylbenzene	ND	--	69.0	56.0	93 J	--
Xylenes (Total)	ND	--	230	410	340	--
TOTAL BTEX	2,300	--	1,739	2,066	1,953	--
TOTAL VOCs	42,300	--	12,239	15,031	11,053	--

NOTES:
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GROUNDWATER TECHNOLOGY

842600225

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS
FORMER ASHLAND CHEMICAL IC&S SITE
221 FOUNDRY STREET
NEWARK, NEW JERSEY
ISRA CASE NO. 88695

	MW-27					
	Mar-89	Oct-91	Sep-92	Apr-93	Nov-93	Apr-94
VOLATILE ORGANIC COMPOUNDS (ug/L)						
Halogenated VOCs Detected						
Chlorobenzene	ND	ND	ND	3.6	ND	3.2
Chloroethane	ND	ND	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene (total)	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND
Trichloroethylene	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND	ND	ND
TOTAL HALOGENATED VOCs	ND	ND	ND	3.6	ND	3.2
Aromatic VOCs Detected						
Benzene	ND	4.3	0.10	2.4	0.64 J	2
Toluene	ND	1.4	ND	ND	0.30 J	0.23 J
Ethylbenzene	ND	ND	ND	ND	ND	ND
Xylenes (Total)	ND	1.0	0.80	ND	4.0	0.25 J
TOTAL BTEX	ND	6.7	0.90	2.4	4.9	2.5
TOTAL VOCs	ND	6.7	0.90	6.0	4.9	6

NOTES:
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GROUNDWATER TECHNOLOGY

842600226

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS
FORMER ASHLAND CHEMICAL IC&S SITE
221 FOUNDRY STREET
NEWARK, NEW JERSEY
ISRA CASE NO. 88695

	MW-28					
	Mar-89	Oct-91	Sep-92	Apr-93	Nov-93	Apr-94
VOLATILE ORGANIC COMPOUNDS (ug/L)						
Halogenated VOCs Detected						
Chlorobenzene	NE	NE	ND	ND	ND	ND
Chloroethane	NE	NE	ND	ND	ND	ND
Chloromethane	NE	NE	ND	ND	ND	ND
1,4-Dichlorobenzene	NE	NE	ND	ND	ND	ND
1,1-Dichloroethane	NE	NE	ND	ND	ND	ND
1,2-Dichloroethane	NE	NE	ND	ND	ND	ND
1,1-Dichloroethene	NE	NE	ND	ND	ND	ND
1,2-Dichloroethene (total)	NE	NE	ND	ND	ND	ND
1,2-Dichloropropane	NE	NE	ND	ND	ND	ND
Methylene Chloride	NE	NE	ND	ND	14 B	ND
Tetrachloroethene	NE	NE	ND	ND	ND	ND
1,1,1-Trichloroethane	NE	NE	ND	ND	ND	ND
Trichloroethylene	NE	NE	ND	ND	ND	ND
Trichlorofluoromethane	NE	NE	ND	ND	ND	ND
Vinyl Chloride	NE	NE	ND	ND	ND	ND
TOTAL HALOGENATED VOCs	NE	NE	ND	ND	14	ND
Aromatic VOCs Detected						
Benzene	NE	NE	1,600	120	560	1,600
Toluene	NE	NE	ND	ND	3.4 J	ND
Ethylbenzene	NE	NE	ND	ND	10	ND
Xylenes (Total)	NE	NE	28.0	17.0	30	14 J
TOTAL BTEX	NE	NE	1,628	137	603	1,614
TOTAL VOCs	NE	NE	1,628	137	617	1,614

NOTES:

ND = Compound Not Detected

NE = Well Not Existing

-- = Well Not Sampled

GROUNDWATER TECHNOLOGY

842600227

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS
FORMER ASHLAND CHEMICAL IC&S SITE
221 FOUNDRY STREET
NEWARK, NEW JERSEY
ISRA CASE NO. 88695

	MW-29					
	Mar-89	Oct-91	Sep-92	Apr-93	Nov-93	Apr-94
VOLATILE ORGANIC COMPOUNDS (ug/L)						
Halogenated VOCs Detected						
Chlorobenzene	NE	NE	ND	ND	ND	ND
Chloroethane	NE	NE	ND	ND	ND	ND
Chloromethane	NE	NE	ND	ND	ND	ND
1,4-Dichlorobenzene	NE	NE	ND	ND	5.8 JB	ND
1,1-Dichloroethane	NE	NE	ND	ND	ND	ND
1,2-Dichloroethane	NE	NE	ND	ND	ND	ND
1,1-Dichloroethene	NE	NE	ND	ND	ND	ND
1,2-Dichloroethene (total)	NE	NE	ND	ND	ND	ND
1,2-Dichloropropane	NE	NE	ND	ND	ND	ND
Methylene Chloride	NE	NE	ND	ND	ND	ND
Tetrachloroethene	NE	NE	ND	ND	ND	ND
1,1,1-Trichloroethane	NE	NE	ND	ND	7.9 J	ND
Trichloroethylene	NE	NE	ND	ND	ND	ND
Trichlorofluoromethane	NE	NE	ND	ND	ND	ND
Vinyl Chloride	NE	NE	ND	ND	ND	ND
TOTAL HALOGENATED VOCs	NE	NE	ND	ND	13.7	ND
Aromatic VOCs Detected						
Benzene	NE	NE	180	140	300	1,800
Toluene	NE	NE	67.0	ND	5.6 J	ND
Ethylbenzene	NE	NE	500	ND	120	93
Xylenes (Total)	NE	NE	5,500	4,200	600	450
TOTAL BTEX	NE	NE	6,247	4,340	1,026	2,343
TOTAL VOCs	NE	NE	6,247	4,340	1,039	2,343

NOTES:

ND = Compound Not Detected

NE = Well Not Existing

-- = Well Not Sampled

GROUNDWATER TECHNOLOGY

HISTORICAL GROUNDWATER SAMPLE ANALYTICAL RESULTS
FORMER ASHLAND CHEMICAL IC&S SITE
221 FOUNDRY STREET
NEWARK, NEW JERSEY
ISRA CASE NO. 88695

	MW-30					
	Mar-89	Oct-91	Sep-92	Apr-93	Nov-93	Apr-94
VOLATILE ORGANIC COMPOUNDS (ug/L)						
Halogenated VOCs Detected						
Chlorobenzene	NE	NE	NE	ND	ND	ND
Chloroethane	NE	NE	NE	ND	ND	ND
Chloromethane	NE	NE	NE	ND	ND	ND
1,4-Dichlorobenzene	NE	NE	NE	ND	ND	ND
1,1-Dichloroethane	NE	NE	NE	6,500	3,800 J	2,300
1,2-Dichloroethane	NE	NE	NE	64,000	9,800	7,800
1,1-Dichloroethene	NE	NE	NE	ND	ND	ND
1,2-Dichloroethene (total)	NE	NE	NE	120,000	330,000	120,000
1,2-Dichloropropane	NE	NE	NE	26,000	13,000	8,100
Methylene Chloride	NE	NE	NE	46,000	19,000	4,500
Tetrachloroethene	NE	NE	NE	8,000	ND	1,600 J
1,1,1-Trichloroethane	NE	NE	NE	13,000	8,100	3,200
Trichloroethylene	NE	NE	NE	45,000	ND	1,800 J
Trichlorofluoromethane	NE	NE	NE	9,600	4,100 J	2,300
Vinyl Chloride	NE	NE	NE	ND	ND	2,600
TOTAL HALOGENATED VOCs	NE	NE	NE	338,100	387,800	154,200
Aromatic VOCs Detected						
Benzene	NE	NE	NE	31,000	32,000	21,000
Toluene	NE	NE	NE	24,000	17,000	16,000
Ethylbenzene	NE	NE	NE	ND	720 J	520 J
Xylenes (Total)	NE	NE	NE	ND	4,700 J	2,800 J
TOTAL BTEX	NE	NE	NE	55,000	54,420	40,320
TOTAL VOCs	NE	NE	NE	393,100	442,220	194,520

NOTES:

ND = Compound Not Detected

NE = Well Not Existing

-- = Well Not Sampled

GROUNDWATER TECHNOLOGY

[redacted]

FROM
ASHLAND CHEMICAL COMPANY
400 DORSEY AVENUE
NEWARK, NJ

HEKR TRUCK
Carrier

Date
1-11-78

Shipper's Number

Ashland.
ASHLAND CHEMICAL COMPANY
Division of Ashland Oil, Inc.

STRAIGHT BILL OF LADING
(Non Transit) SHORT FORM
SHIPPING ORDER COPY

RECEIVED subject to the classifications and tariffs in effect on the date of issue of this Bill of Lading, the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is hereby agreed, as to each carrier of all or any part of said property, over all or any portion of said route to destination, and as to each party at any time interested in all or any part of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

CONSIGNED TO
SCIENTIFIC CHEMICAL COMPANY
216 PATTERSON PLANK RD
CARLSTADT, NEW JERSEY

Mail or Street Address of Consignee for purpose of identification only

ROUTE
HEKR TRUCK

DELIVERING CARRIER

CAR OR VEHICLE INITIAL AND NO

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

ASHLAND CHEMICAL COMPANY
(Signature of Consignor)

If charges are to be Prepaid write here "Prepaid"

COLLECT

QUANTITY	HM	DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	WEIGHT (Subject to Correction)	CLASS OR RATE	CHECK COLUMN
10 DRS		X RESIN SOLUTION FLAMMABLE LIQUID WASTE MATERIAL	GROSS 5080		
			TARE 26.2		
			NET 5053.8		

Received $ ____ to apply in prepayment of the charges on the property described hereon.

Agent or Cashier

Per ____
The signature here acknowledges only the amount prepaid.

Charges advanced:

$ ____

The fibre boxes or sacks used for this shipment conform to requirements of Rule 5 40 and 41 of Consolidated Freight Classification

The description and weight indicated on this B/L of lading are correct subject to verification by the APPROPRIATE WEIGHING AND INSPECTION BUREAU according to agreement

If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." Note—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ ____ per ____

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Note—If bill of lading is issued for a vehicle operated by the owner or owner of product, but moving a receipt for product in behalf of owner.

Carrier certifies that the cargo tank supplied for this shipment is a proper container for the transportation of this commodity.

SIGNATURE

TIME IN 1:- Delay 10:30 - 3:30

TIME OUT 3:0-

CONTAINER PLACARED WITH NUMBER 4 FLAMMABLE

THIS WASTE MATERIAL IS CONSIDERED HO

SCIENTIFIC CHEMICAL 111 WILSON AVENUE NEWARK, NJ FOR DISPOSAL

SIGNED BY

SCIENTIFIC CHEMICAL CO

92

IN THE EVENT OF ANY EMERGENCY CONCERNING THE PRODUCT IN THIS SHIPMENT, CALL TOLL FREE NUMBER 800 424 9300, DAY OR NIGHT

ASHLAND CHEMICAL COMPANY, SHIPPER
400 DORSEY AVENUE NEWARK, NJ

AGENT

PER

Permanent post office address of shipper P O BOX 2219 COLUMBUS OHIO 43216

8004

0017899

842600220

842600230

FROM
AND CHEMICAL COMPANY
) RIVERSIDE AVENUE
MARK, NJ
IR TRUCK Carrier

Ashland.
ASHLAND CHEMICAL COMPANY
Division of Ashland Oil Inc

STRAIGHT BILL OF LADING
(Non Transit) SHORT FORM
MEMORANDUM

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any part of said property, over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or a rail-water shipment, or (2) in the applicable motor carrier classification or tariff, if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

TO
SCIENTIFIC CHEMICAL COMPANY
216 PATTERSON PLANK RD
CARLSTADT, NEW JERSEY

Mail or Street Address of Consignee for purpose of identification only

THEIR TRUCK

CARRIER | CAR OR VEHICLE INITIAL AND NO

DESCRIPTION OF ARTICLES SPECIAL MARKS AND EXCEPTIONS	WEIGHT (Subject to Correction)	CLASS OR RATE	CHECK COLUMN
X RESIN SOLUTION FLAMMABLE, N.O.I. WASTE MATERIAL	GROSS 1 3 7		
	TARE		
	NET		

TIME IN
TIME OUT 21

CONTAINER PLACARDED WITH
NUMBER 4 FLAMMABLE

THIS WASTE MATERIAL IS CONSIGNED TO SCIENTIFIC CHEMICAL 4 RIVER AVENUE KEWARK NJ

SIGNED BY
SCIENTIFIC CHEMICAL CO

IN THE EVENT OF ANY EMERGENCY CONCERNING THE PRODUCT IN THIS SHIPMENT, CALL TOLL FREE [illegible] 800-424-9300, DAY OR NIGHT.

Subject to Section 7 of conditions of this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

ASHLAND CHEMICAL COMPANY

(Signature of Consignor)

If charges are to be Prepaid type here. Prepaid

collect

Received $ to apply in prepayment of the charges on the property described hereon.

Agent or Cashier

Per (The signature here acknowledges only the amount prepaid.)

Charges advanced

$

"The fibre boxes or sacks used for this shipment conform to requirements of Rule 5, 40 and 41 of Consolidated Freight Classification"

The description and weight indicated on this bill of lading are correct subject to verification by the APPROPRIATE WEIGHING AND INSPECTION BUREAU, according to agreement.

"If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is 'carrier's or shipper's weight.' Note: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ per

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Not a bill of lading when issued in a railway operated by shipper or owner of product but merely a receipt for product in behalf of owner.

Carrier certifies that the cargo tank supplied for this shipment is a proper container for the transportation of this commodity.

SIGNATURE

CHEMICAL COMPANY, SHIPPER

DATE

PER

post office address of shipper P O BOX 2219 COLUMBUS OHIO 43216

TOLL RECEIPT
Received for passage on the New Jersey Turnpike
DOLLAR | CENTS | DATE
2 95
L143886 A

THE SERIAL NUMBER OF THIS RECEIPT HAS BEEN RECORDED BY DATE OF ISSUE AND COLLECTOR ISSUING SAME. DO NOT ACCEPT IF ERASED OR OTHERWISE ALTERED.
COLLECTOR SHOULD PLACE AN X IN THE DOLLAR OR CENTS BOXES NOT USED.

DESIGNED FOR BRANCH SCALE 1/32"
Date 1960 lbs
Time lbs
Net lbs
Weighed on Calibrated Scale
Weighed in U.S.A.

TOLL RECEIPT
Received for passage on the New Jersey Turnpike
DOLLAR | CENTS | DATE
4 80
L123754 B

THE SERIAL NUMBER OF THIS RECEIPT HAS BEEN RECORDED BY DATE OF ISSUE AND COLLECTOR ISSUING SAME. DO NOT ACCEPT IF ERASED OR OTHERWISE ALTERED.
COLLECTOR SHOULD PLACE AN X IN THE DOLLAR OR CENTS BOXES NOT USED.

TOLL RECEIPT
Received for passage on the New Jersey Turnpike
DOLLAR | CENTS | DATE
4 80
L 23034 A

THE SERIAL NUMBER OF THIS RECEIPT HAS BEEN RECORDED BY DATE OF ISSUE AND COLLECTOR ISSUING SAME. DO NOT ACCEPT IF ERASED OR OTHERWISE ALTERED.
COLLECTOR SHOULD PLACE AN X IN THE DOLLAR OR CENTS BOXES NOT USED.

TOLL RECEIPT
Received for passage on the New Jersey Turnpike
DOLLAR | CENTS | DATE
L 21293 B

THE SERIAL NUMBER OF THIS RECEIPT HAS BEEN RECORDED BY DATE OF ISSUE AND COLLECTOR ISSUING SAME. DO NOT ACCEPT IF ERASED OR OTHERWISE ALTERED.
COLLECTOR SHOULD PLACE AN X IN THE DOLLAR OR CENTS BOXES NOT USED.

TOLL RECEIPT
Received for passage on the New Jersey Turnpike
DOLLAR | CENTS | DATE
2 0
K859012 B

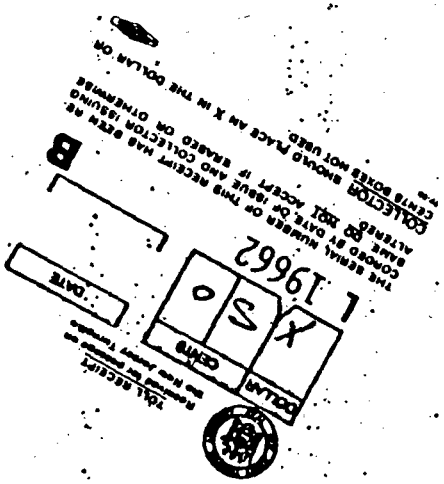
THE SERIAL NUMBER OF THIS RECEIPT HAS BEEN RECORDED BY DATE OF ISSUE AND COLLECTOR ISSUING SAME. DO NOT ACCEPT IF ERASED OR OTHERWISE ALTERED.
COLLECTOR SHOULD PLACE AN X IN THE DOLLAR OR CENTS BOXES NOT USED.

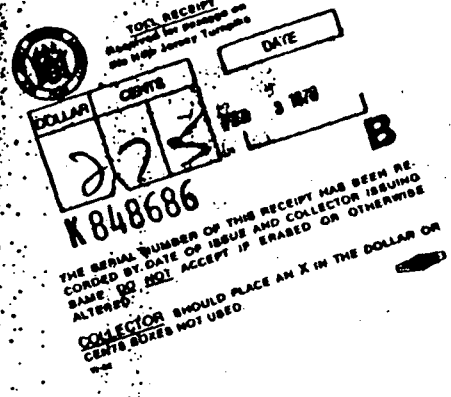
TOLL RECEIPT
Received for passage on the New Jersey Turnpike
DOLLAR | CENTS | DATE
2 7 5
L378164 B

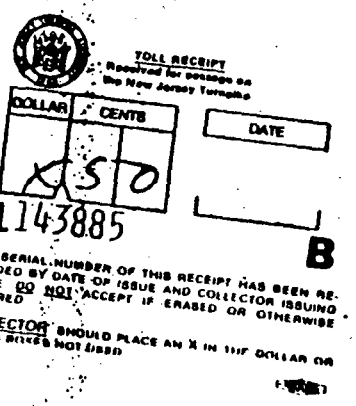
THE SERIAL NUMBER OF THIS RECEIPT HAS BEEN RECORDED BY DATE OF ISSUE AND COLLECTOR ISSUING SAME. DO NOT ACCEPT IF ERASED OR OTHERWISE ALTERED.
COLLECTOR SHOULD PLACE AN X IN THE DOLLAR OR CENTS BOXES NOT USED.

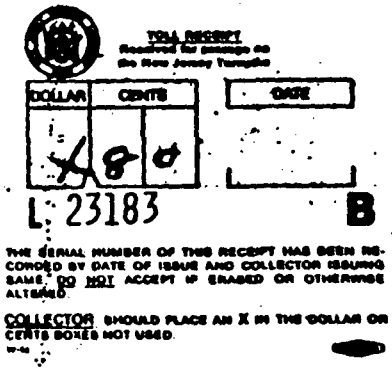
0017901

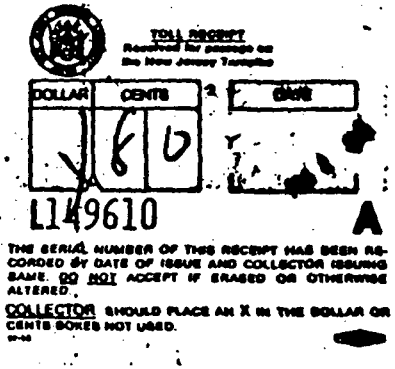
842600231











[redacted]

[redacted]

0017902

ASHLAND CHEMICAL COMPANY
400 DOREMUS AVENUE
NEWARK NJ

TRUCK

Date 3/4/18

Shipper's Number

Ashland

ASHLAND CHEMICAL COMPANY
Division of Ashland Oil Inc

STRAIGHT BILL OF L
(Non Transit) SHORT F
MEMORANDUM

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own road or its own water line, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

CONSIGNED TO: SCIENTIFIC CHEMICAL COMPANY
216 PATTERSON PLANK RD
CARLSTADT, NEW JERSEY

Mail or Street Address of Consignee for purpose of identification only

ROUTE: TRUCK

DELIVERING CARRIER: CAR OR VEHICLE (INITIAL AND NO)

Subject to Section 7 of co
shipment is to be delivered t
without recourse on the cons
signor shall sign the following

The carrier shall not make
shipment without payment o
other lawful charges

ASHLAND CHEMICAL
Signature of Con

If charges are to be Prepa
Prepaid

COLLECT

Received $
to apply in prepayment of th
property described hereon

Agt

Per
(The signature here acknow
amount prepaid.)

Charges advan

$

The fibre boxes or sacks u
shipment conform to requirements
61 of Consolidated Freight C

The description and weight
bill of lading are correct (unle
this carrier has HAS NOT
SPECTION BUREAU exam

If the shipment moves between
ports by water the law requ
bill of lading state whether
carrier's weight, basis of
disagreement on value, shipper
state specifically, in writing, th
agreed or declared value of the property
agreed or declared value of the property
hereby stated by the shipper to

$ per

This is to certify that the above
are properly classified, des
marked and labeled and
condition for transportation
applicable regulations of th
Transportation

Not a bill of lading when s
executed by shipper or con
warranty a receipt for property

Carrier certifies that he is
this shipment is a proper
transportation of this ship

QUANTITY	HM	DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	WEIGHT (Subject to Correction)	CLASS OR RATE	CHECK COLUMN
14		DRS X RESIN SOLUTION FLAMMABLE LIQUID WASTE MATERIAL	GROSS		
			TARE 2650		
			NET		

TIME IN 3/1

TIME OUT 1/2

CONTAINER PLACARDED WITH NUMBER 4 FLAMMABLE

THIS WASTE MATERIAL IS CONSIGNED TO SCIENTIFIC CHEMICAL 411 WILSON AVENUE NEWARK, NEW JERSEY

SIGNED BY
SCIENTIFIC CHEMICAL COMPANY

IN THE EVENT OF ANY EMERGENCY CONCERNING THE PRODUCT IN THIS SHIPMENT, CALL TOLL FREE NUMBER 800 424 9300, DAY OR NIGHT.

ASHLAND CHEMICAL COMPANY, Shipper
400 DOREMUS AVENUE NEWARK, NJ

Permanent post office address of shipper P O BOX 2219, COLUMBUS, OHIO 43216

PER

00017904

842600232

FROM
ASHLAND CHEMICAL COMPANY
500 DOREMUS AVENUE
NEWARK NJ
THEIR TRUCK
Carrier

Date
3/7/78

Shipper's Number

Ashland
ASHLAND CHEMICAL COMPANY
Division of Ashland Oil Inc

STRAIGHT BILL OF LADING
(Non Transit) SHORT FORM
SHIPPING ORDER COPY

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under this contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any part of said property, over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

CONSIGNED TO
SCIENTIFIC CHEMICAL COMPANY
216 PATTERSON PLANK ROAD
CARLSTADT, N J

Mail or Street Address of Consignee for purpose of identification only

ROUTE THEIR TRUCK

DELIVERING CARRIER

CAR OR VEHICLE INITIAL AND NO

QUANTITY	HM	DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	*WEIGHT (Subject to Correction)	CLASS OR RATE	CHECK COLUMN
18 DRS	X	RESIN SOLUTION FLAMMABLE LIQUID WASTE MATERIAL GROSS	53810		
		TARE	2609		
		NET	27720		

TIME IN 3:15
TIME OUT 5:45

PLACARDED FLAMMABLE LIQUID
NOMEX & FLAMMABLE

SIGNED BY Robert Allen

THIS WASTE MATERIAL IS CONSIGNED TO
SCIENTIFIC CHEMICAL CO 411 WILSON AVENUE NEWARK NJ FOR DISPOSAL

SIGNED BY Robert Allen
SCIENTIFIC CHEMICAL CO

IN THE EVENT OF ANY EMERGENCY
CONCERNING THIS
CALL

3-47
C-44

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

ASHLAND CHEMICAL COMPANY
Fred Bell
(Signature of Consignor)

If charges are to be Prepaid, type here "Prepaid"
COLLECT

Received $ to apply in prepayment of the charges on the property described hereon.

Agent or Cashier

Per (The signature here acknowledges only the amount prepaid.)

Charges advanced

$

*Use here boxes or packs used for this shipment conform to requirements of Rule 5-40 and 41 of Consolidated Freight Classification.

The description and weight indicated on this bill of lading are correct, subject to verification by the APPRAISAL WEIGHING AND INSPECTION BUREAU according to agreement.

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." Note: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ per

The is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Not a bill of lading, when moved in a vehicle operated by shipper or owner of product, but merely a receipt for products in behalf of owner.

Carrier certifies that the cargo tank supplied for this shipment is a proper container for the transportation of this commodity.

SIGNATURE

ASHLAND CHEMICAL COMPANY, Shipper
500 DOREMUS AVENUE NEWARK, NJ
Per Fred Bell

AGENT

PER

Permanent post office address of shipper P O BOX 7219 COLUMBUS, OHIO 43216

8204

Load [illegible] Date 3/7/78
From [illegible]
Orig. 27140 lbs To Scientific
Tare 26280 lbs Via [illegible]
Net 860 lbs Amt [illegible]
Marks [illegible]
On Car OHIO CENTRAL
Factory
Weighed on U.S. Scales

842600233

0017367

FROM
ASHLAND CHEMICAL COMPANY
400 DOREMUS AVENUE
NEWARK, NJ

THIRD TRUCK

Date
3/9/78

Shipper's Number

Ashland
ASHLAND CHEMICAL COMPANY
Division of Ashland Oil, Inc.

STRAIGHT BILL OF LADING
(Non Transit) SHORT FORM
SHIPPING ORDER COPY

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any part of said property over all or any portion of said route to destination and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

CONSIGNED TO SCIENTIFIC CHEMICAL PROCESSING
216 PATERSON PLANK RD
CARLSTADT, NEW JERSEY

Mail or Street Address of Consignee for purposes of identification only

THIRD TRUCK
ROUTE

DELIVERING CARRIER

CAR OR VEHICLE INITIAL AND NO

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

ASHLAND CHEMICAL COMPANY
(Signature of Consignor)

If charges are to be prepaid write here "Prepaid."

COLLECT

Received $ _____ to apply in prepayment of the charges on the property described hereon.

Agent or Cashier

Per _____
(The signature here acknowledges only the amount prepaid.)

Charges advanced:

$ _____

"The rate, basis, or facts used for this shipment conform to requirements of Rule 540 and 61 of Consolidated Freight Classification."

"The description and weight indicated on this Bill of Lading are correct subject to correction by the APPROPRIATE WEIGHING AND INSPECTION BUREAU according to agreement."

"If this shipment moves between two ports by a carrier by water, the law requires that this bill of lading shall state whether it is 'carrier's or shipper's weight.' Note—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ _____ per _____"

SUBDIVISION	No.	DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	WEIGHT (Subject to Correction)	CLASS OR RATE	CHECK COLUMN
55 DRS	X	RESIN SOLUTION FLAMMABLE LIQUID WASTE MATERIAL GROSS	47440		
		TARE	26280		
		NET	21160		
		TIME IN 2:00 TIME OUT 4:15			
		PLACARDED FLAMMABLE LIQUID NUMBER 1 FLAMMABLE SIGNED Robert Allen THIS WASTE MATERIAL IS CONSIGNED TO			
		SCIENTIFIC CHEMICAL CO 411 WILSON AVENUE NEWARK, NJ FOR DISPOSAL			
		SIGNED BY Robert Allen			
		SCIENTIFIC CHEMICAL			
		07104		Bdy	

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Not a bill of lading when indicated as a vehicle operated by shipper or owner of product, but merely a record for product in behalf of owner.

Carrier certifies that the cargo here described for this shipment is a proper consignee for the transportation of this commodity.

SIGNATURE

ASHLAND CHEMICAL COMPANY, SHIPPER
400 DOREMUS AVENUE NEWARK, NJ

AGENT

PER

Permanent post office address of shipper P O BOX 2219 COLUMBUS, OHIO 43216

0017908

842600234

ASHLAND CHEMICAL COMPANY
400 DOREMUS AVENUE
NEWARK, NJ

THEIR TRUCK
Carrier

Date
3/23/78

Shipper's Number

Ashland

ASHLAND CHEMICAL COMPANY
Division of Ashland Oil, Inc.

STRAIGHT BILL OF LADING
(Non Transit) SHORT FORM
SHIPPING ORDER COPY

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any part of said property, over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back hereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

CONSIGNED TO
SCIENTIFIC CHEMICAL COMPANY
216 PATERSON PLANK ROAD
CARLSTADT, NJ

Mail or Street Address of Consignee for purpose of identification only

ROUTE
THEIR TRUCK
DELIVERING CARRIER

CAR OR VEHICLE INITIAL AND NO

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

ASHLAND CHEMICAL COMPANY
(Signature of Consignor)

If charges are to be Prepaid type here Prepaid

COLLECT

Received $
to apply in prepayment of the charges on the property described hereon.

Agent or Cashier

Per
(The signature here acknowledges only the amount prepaid.)

Charges advanced

$

"The fibre boxes or sacks used for this shipment conform to requirements of Rule 5-40 and 41 of Consolidated Freight Classification."

The description and weight indicated on the bill of lading are correct subject to verification by the APPROPRIATE WEIGHING AND INSPECTION BUREAU according to agreement.

"If this shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is 'carrier's or shipper's weight.' Note: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ per

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation, according to the applicable regulations of the Department of Transportation.

Not a bill of lading when moved in a vehicle operated by shipper or owner of product, but merely a receipt for product on behalf of owner.

Carrier certifies that the cargo tank supplied for the shipment is a proper container for the transportation of the commodity.

SIGNATURE

QUANTITY	HM	DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	WEIGHT (Subject to Correction)	CLASS OR RATE	CHECK COLUMN
DRS	X	RESIN SOLUTION FLAMMABLE LIQUID WASTE MATERIAL	GROSS		
			TARE 2020		
			NET		

TIME IN 945

TIME OUT

CONTAINER PLACARDED WITH
NUMBER 4 FLAMMABLE LIQUID
SIGNED BY Robert Allen
THIS MATERIAL IS CONSIGNED TO
SCIENTIFIC CHEMICAL CO 411 WILSON AVENUE NEWARK, NEW JERSEY

FOR DISPOSAL SIGNED BY Robert Allen
SCIENTIFIC CHEMICAL COMPANY

ASHLAND CHEMICAL COMPANY, SHIPPER
400 DOREMUS AVENUE, NEWARK, NJ
PER

AGENT

Permanent post office address of shipper P O BOX 2219, COLUMBUS, OHIO 43216

8304

84260235

TOLL RECEIPT
Received for passage on the New Jersey Turnpike

DOLLAR	CENTS	DATE
X	80	MAR 8 1978

L223389 A

THE SERIAL NUMBER OF THIS RECEIPT HAS BEEN RECORDED BY DATE OF ISSUE AND COLLECTOR ISSUING SAME. DO NOT ACCEPT IF ERASED OR OTHERWISE ALTERED.

COLLECTOR SHOULD PLACE AN X IN THE DOLLAR OR CENTS BOXES NOT USED.

TOLL RECEIPT
Received for passage on the New Jersey Turnpike

DOLLAR	CENTS	DATE
X	80	

L808909 A

THE SERIAL NUMBER OF THIS RECEIPT HAS BEEN RECORDED BY DATE OF ISSUE AND COLLECTOR ISSUING SAME. DO NOT ACCEPT IF ERASED OR OTHERWISE ALTERED.

COLLECTOR SHOULD PLACE AN X IN THE DOLLAR OR CENTS BOXES NOT USED.

0017910

71.

ACCOUNTS PAYABLE DISTRIBUTION (USE BLACK INK)

PURCHASE ORDER NUMBER	DUE DATE MO. DAY YR.	VENDOR NO	PAYEE	DOCUMENT NUMBER (Leave Blank)
[illegible]		[illegible]139906309777		D1098[illegible]

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT	NET AMOUNT
9-25			4335.00

ROM	NOT REQUIRED / PRESENT / REQUIREMENT	Qual	APPROVAL ID	MANUAL CHECK	SPEC	TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT
N		N	[illegible]			

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	R/C CODE	AMOUNT
		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4335.00

GOT 07 377

VENDOR CODE

CODED BY	EMPLOYEE NO	INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)	TOTAL DISTRIBUTION
[illegible]	012654		4335.00

842600236

Scientific Chemical Processing, Inc.

411 WILSON AVENUE, NEWARK, NEW JERSEY 07105
Telephone (201) 589-7777

PURCHASING DEPT
RECEIVED
P.M.

SOLD TO
Ashland Chemical
400 Doremus Ave.
Newark, N.J. 07105
Attn: Milt Goldberg

INVOICE NO. 9-25 OHIO
DATE 9-14-77

SHIP TO ☐ PICK UP AT ☐
SAME AS SOLD TO UNLESS INDICATED:

1-35	362-5537	Net 10 Days	SCF 9-7,-8-77		X
1 T/L	79 drums	Waste Removed 9-7-77 Delay 9:00-11:30= 1 hr		$25/drq $15/hr	$1975.00 $ 15.00
1 T/L	77 drums	Waste Removed 9-8-77 Delay 11:00-3:00= 2 hrs.		$25/dr $15/hr	$1925.00 $ 30.00
2 T/L	22 rails 2 T/L	Waste Removed Transportation		$5/pl $140/ld	$ 110.00 $ 280.00
					$4335.00

RECEIVED
ACCOUNTS PAYABLE
SEP 26 1977

RECEIVED
OCT 1977

OCT 3 1977 APPROVED

V13L910.00
P13 325.00

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE HEREOF

BY

BY

842600237

ACCOUNTS PAYABLE DISTRIBUTION (USE BLACK INK)

F120201

PURCHASE ORDER NUMBER	DUE DATE MO.	DAY	YR.	VENDOR NO.	EQUIP. NO.	DOCUMENT NUMBER (Leave Blank)
362537	09	26	77	01399063	09 77	

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT	NET AMOUNT
9-43			2172.50

ROM	N – NOT REQUIRED / P – PRESENT / R – REQ NOT PRESENT	Qual.	APPROVAL ID	MANUAL CHECK	SPEC.	TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT
N		N	JC26			

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	R/C CODE	AMOUNT
		00250	362	810977	226	01010	2172.50

CODED BY	EMPLOYEE NO.	INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)	TOTAL DISTRIBUTION
U	01516SH	09/07 [redacted] VENDOR CODE	2172.50

842600238

Scientific Chemical Processing, Inc.

411 WILSON AVENUE, NEWARK, NEW JERSEY 07105
Telephone (201) 589-7777

INVOICE NO: 9-43
DA 9-16-77

SOLD TO
Ashland Chemical Co.
400 Doremus Ave.
Newark, N.J. 07105
Attn: Milt Goldberg

SHIP TO ☐ PICK UP AT ☐
(SAME AS SOLD TO UNLESS INDICATED)

YOUR ORDER NO	TERMS NET 10 DAYS	SHIPPED VIA	F.O.B.
I-43	362-5537	Net 10 Days	SCP 9-14-77	X

QTY APPROXIMATE	QTY ACTUAL	DESCRIPTION	PRICE	AMOUNT
1 T/L	81 drums	Waste Removed	$25/dr	$2025.00
		Delay 1:30-3:30= 2 hr	$15/hr	~~15.00~~
1 T/L	1 T/L	Transportation	$140/ld	$ 140.00
				~~$2180.00~~
				2172.50

V1@2025.00
P1@155.00

OCT 0 6 1977

061263
By: RG Dunkin

RECEIVED
ACCOUNTS PAYABLE
SEP 26 1977

RECEIVED
ACCOUNTS PAYABLE
OCT 3 1977

B/L OCT 0 6 1977

APPROVED
10/4

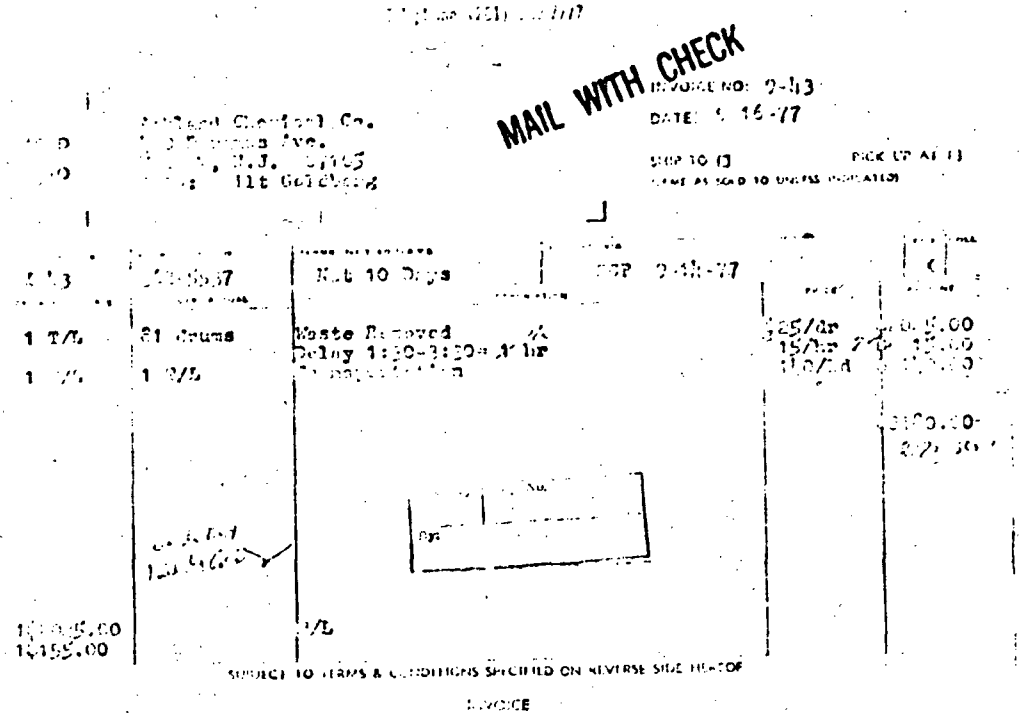
SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF

ACCEPTED

INVOICE BY

842600239

MAIL WITH CHECK



MAIL WITH CHECK

842600240

73.

ACCOUNTS PAYABLE DISTRIBUTION (USE BLACK INK)

D112414

PURCHASE ORDER NUMBER	DUE DATE MO.	DUE DATE DA.	VENDOR NO.	INV. MO.	INV. YR.	DOCUMENT NUMBER (Leave Blank)
762557			0930770139963	09	77	

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT	NET AMOUNT
9-55			431.00

ROM	NOT REQUIRED / PRESENT / REQ NOT PRESENT	Qual.	APPROVAL ID	MANUAL CHECK	SPEC.	TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT
N	N		1061263		X	

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	R/C CODE	AMOUNT
		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4525.50
				211329.638	01C004		(215.50)

CODED BY	EMPLOYEE NO	INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)	TOTAL DISTRIBUTION
[illegible]	[illegible]		431.00

DEC 12 1977

ACCTG [illegible] UP N.J. TAX

842600241

Scientific Chemical Processing, Inc.

411 WILSON AVENUE, NEWARK, NEW JERSEY 07105
Telephone (201) 589-7777

INVOICE NO: 9-55
DATE: 9-20-77

SOLD TO
Ashland Chemical Co.
400 Doremus Ave.
Newark, N.J. 07105
Attn: Milt Goldberg

SHIP TO ☐ PICK UP AT ☐
(SAME AS SOLD TO UNLESS INDICATED)

I-55	362-5537	Net 10 Days	SCP 9-15,-16 77	X

2 T/L	80 drums	Waste Removed	$25/dr	$2000.00
	81 drums	Waste Removed	$25/dr	$2000.00
		Delay 10:30-2:30= 3 hrs	$15/hr	$ 45.00
	2 T/L	Transportation	$140/ld	$ 280.00
				$4325.00

PURCHASING DEPT.
RECEIVED
RECEIVED OCT 5 A.M.
COLUMBUS, OHIO

RECEIVED 1977
ACCOUNTS PAYABLE
OCT 3 1977
APPROVED

V1 $4000.00
P1 $ 325.00

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF

CHEMICAL ALLTG. INVOICE

842600242

Scientific Chemical Processing, Inc.
411 WILSON AVENUE, NEWARK, NEW JERSEY 07105
Telephone (201) 589-7777

SOLD TO
Ashland Chemical Co.
400 Doremus Ave.
Newark, N.J. 07105
Attn: Milt Goldberg

MAIL WITH CHECK

INVOICE NO. 9-55
DATE 9-20-77
SHIP TO ☐ PICK UP AT ☐
SAME AS SOLD TO UNLESS INDICATED

I-55	362-5537	Net 10 Days	SCF 9-15,-16-77		X
2 T/L	80 drums 81 drums 2 T/L	Waste Removed Waste Removed Delay 10:30-2:30= 3 hrs Transportation		$25/dr $25/dr $15/hr $140/1d	$2000.00 $2000.00 $ 45.00 $ 280.00
					$4325.00

$4030.00
$ 295.00

MAIL WITH CHECK

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF

MAIL WITH CHECK

842600243

300

ACCOUNTS PAYABLE DISTRIBUTION (USE BLACK INK)

D112415

PURCHASE ORDER NUMBER	RVR DATA MO. DAY YR.	VENDOR NO.	PYDY NO. YR.	DOCUMENT NUMBER (If more than one)
3612337		10027701399063	09 77	

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT	NET AMOUNT
9-75			217.00

ROM N - NOT REQUIRED P - PRESENT R REQ NOT PRESENT	Cont. Approval	APPROVAL ID	MANUAL CHECK	SPEC.	TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT.
N	N	1061263		X	

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	C CODE	AMOUNT
		0073000	362	6102777	236	0108100	228.50
				2113226380		A1C0004	(108.50)

CODED BY	EMPLOYEE NO.	INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)	TOTAL DISTRIBUTION
JF	151.54		217.00

OCT 12 1977

ACCT. NO. VENDOR CODE

842600244

Scientific Chemical Processing, Inc.

411 WILSON AVENUE, NEWARK, NEW JERSEY 07105
Telephone (201) 589-7777

INVOICE NO: 9-75
DATE: 9-22-77

SOLD TO
Ashland Chemical
400 Doremus Ave.
Newark, N.J. 07105
Attn: Milt Goldberg

SHIP TO ☐ PICK UP AT ☐
(SAME AS SOLD TO UNLESS INDICATED)

I-69	362-5537	Net 10 Days	SCP 9-21-77	X

QTY APPROXIMATE	QTY ACTUAL	DESCRIPTION	PRICE	AMOUNT
1 T/L	80 drums	Waste Removed	$25/dr	$2000.00
		Delay 10:15-2:15= 2½ hrs	$15/hr	~~$37.50~~
1 T/L	1 T/L	Transportation	140/ld	$ 140.00
				~~$2177.50~~
				2177.50

EXAMINED AND FOUND CORRECT
OCT 1 1977
PURCHASING DEPT.
RECEIVED
ACCOUNTS PAYABLE
OCT 5 A.M.
COLUMBUS, OHIO

RECEIVED
OCT 1 1977
CHEMICAL ACCT.

OCT 10 1977
APPROVED

V1$2000.00
P1$ 177.50

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF

842600245

Scientific Chemical Processing, Inc.
411 WILSON AVENUE. NEWARK, NEW JERSEY 07105
Telephone (201) 589-7777

MAIL WITH CHECK

INVOICE NO. 9-75
DATE 9-22-77

SOLD TO
Ashland Chemical
400 Doremus Ave.
Newark, N.J. 07105
Attn: Milt Goldberg

SHIP TO ☐ PICK UP AT ☐
(SAME AS SOLD TO UNLESS INDICATED)

I-69	362-5537	Net 10 Days	SCP 9-21-77		X
1 T/L	80 drums	Waste Removed		$25/dr	$2000.00
1 T/L	1 T/L	Delay 10:15-2:15= 2¼ hrs		$15/hr	$ 37.50
		Transportation		140/ld	$ 140.00
					$2177.50

MAIL WITH CHECK

$2000.00
$ 177.50

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF

MAIL WITH CHECK

842600246

1
75.

300

ACCOUNTS PAYABLE DISTRIBUTION (USE BLACK INK)

PURCHASE ORDER NUMBER	EVL DATE MO. DAY YR.	VENDOR NO	EXPEV NO.	DOCUMENT NUMBER (Leave Blank)
362553	11 08 77	0139906316	77	F123871

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT	NET AMOUNT
9-113			214000

ROM	N NOT REQUIRED / P PRESENT / R REQ NOT PRESENT	Check Received	APPROVAL ID	MANUAL CHECK	SPEC	TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT
N	N	N	1061263			

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	R/C CODE	AMOUNT
		0075	364	11226		0510	214000

CODED BY	EMPLOYEE NO	INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)	VENDOR CODE	TOTAL DISTRIBUTION
	11-615499			214000

842600247

Scientific Chemical Processing, Inc.

411 WILSON AVENUE. NEWARK, NEW JERSEY 07105
Telephone (201) 589-7777

INVOICE NO 9-113
DATE 9-28 77

SOLD TO
Ashland Chemical
400 Doremus Ave.
Newark, N.J. 07105
Attn: Mr. Dillon

SHIP TO ☐ PICK UP AT ☐
SAME AS SOLD TO UNLESS INDICATED

I-107	362-5537	Net 10 Days	SCP 9-23-77	X

QTY ORDERED	QTY ACTUAL		PRICE	AMOUNT
1 T/L	80 drums	Waste Removed Transportation	$25/dr $140/ld	$2000.00 $ 140.00
				$2140.00

EXAMINED AND CALCULATIONS
OCT 12 1977
ACCOUNTING DEPT.

V1$2000.00
P1$140.00

1 06763

RECEIVED
ACCOUNTS PAYABLE
OCT 27 77
BY

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF

INVOICE

842600248

Scientific Chemical Processing, Inc.

411 WILSON AVENUE, NEWARK, NEW JERSEY 0710[illegible]
Telephone 20[illegible] 589-[illegible]

INVOICE NO. C-11[illegible]
DATE 9-[illegible]-77

SOLD TO
Ashland Chemical
400 Doremus Ave.
Newark, N.J. 07105
Attn: Mr. Dillon

SHIP TO
SAME AS SOLD TO UNLESS INDICATED

C-107	362-5537	Net 10 Days	9-[illegible]-77		X
1 T/L	80 drums	Waste Removed Transportation		$25/dr $1.75/Cw	$2000.00 $ 140.00
					$2140.00

$2000.00
$140.00

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF

842600249

79.

ACCOUNTS PAYABLE DISTRIBUTION (JUST BLACK INK)

F129011

PURCHASE ORDER NUMBER	PUR. DATA MO.	DA.	VENDOR NO.	PAYEE CD.
3626541	10	27	0139063	1C 77

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT	NET AMOUNT
10-32			2115.00

ROM: N NOT REQUIRED P PRESENT R REQ'D NOT PRESENT	Qual.	APPROVAL ID	MANUAL CHECK	SPEC.	TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT
N	N	MC1965			

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	R/C CODE	AMOUNT
		007500	362	810237	22C	01081.0	2115.00

CODED BY	EMPLOYEE NO.	INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)	TOTAL DISTRIBUTION
W	015654		2115.00

OCT 21 1977

VENDOR CODE

842600250

Scientific Chemical Processing, Inc.

411 WILSON AVENUE, NEWARK, NEW JERSEY 07105
Telephone (201) 589-7777

SOLD TO

INVOICE NO: 10-2[illegible]
DATE: 10-11-77

SHIP TO ☐ PICK UP AT ☐
(SAME AS SOLD TO UNLESS INDICATED)

SALES NO.	YOUR ORDER NO.	TERMS NET 10 DAYS	SHIPPED VIA	PPD COLL
[illegible]	VO [illegible] 6541	Net 10 Days	SCP 10-[illegible]-77	X

QTY APPROXIMATE	QTY ACTUAL	DESCRIPTION	PRICE	AMOUNT
1 T/	T[illegible] 1 T/	[illegible]ante [illegible] Trans portation	[illegible]5/dr .185/2d	$1975.00 ✓ 140.00
				$115.00

EXAMINED CALCULATIONS
OCT 21 1977
ASHLAND CHEMICAL

Category 1 Location 061263
By: RG Decker

CK MNG

1 061124

RECEIVED BY
OCT 19 1977
OCT 19 9AM
RECEIVED BY
OCT 20 PM

RECEIVED
OCT 20 1977

RECEIVED
OCT 20 1977
[illegible]

[illegible]1977.00
[illegible]115.00

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON [illegible] SIDE HEREOF

CHEMICAL ACTG. INVOICE

842600251

34

300

C070825

ACCOUNTS PAYABLE DISTRIBUTION (USE BLACK INK)

PURCHASE ORDER NUMBER	DUE DATA MO.	DAY	YR.	VENDOR NO.	ENTRY DA.	ENTRY YR.	DOCUMENT NUMBER (If more than 6 characters, use Block)
362503	07	01	77	01399463	09	77	

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT	NET AMOUNT
6-76			2147.50

ROM	N – NOT REQUIRED / P – PRESENT / R – REQ /NOT PRESENT	Qual.	APPROVAL ID	MANUAL CHECK	SPEC.	TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT.
N	P	1	61263			

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	R/C CODE	AMOUNT
		007500	562	810237	226	010810	2147.50

JUL 20 1977

VENDOR 60

CODED BY	EMPLOYEE NO.	INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)	TOTAL DISTRIBUTION
lc	015654		2147.50

842600252

Scientific Chemical Processing, Inc.

411 WILSON AVENUE, NEWARK, NEW JERSEY 07105
Telephone (201) 589-7777

INVOICE NO 6-76

DATE: 6-.1-77

SOLD TO: Ashland Chemical
600 Doremus Ave.
Newark, ... 07105
Attn: Bill Goldberg

SHIP TO ☐ PICK UP AT ☐
(SAME AS SOLD TO UNLESS INDICATED)

SALES ORDER #	YOUR ORDER NO.	TERMS NET 10 DAYS	SHIPPED VIA	PPD COLL.
6-76	362-5537	Net 10 Days JUL 1	SCP	X

QTY APPROXIMATE	QTY ACTUAL	DESCRIPTION	PRICE	AMOUNT
1 T/.	80 drums	Waste Removed 6-20-77	$25/dr	$2000.00
		Delay 2:30-4:30= 1 hr 1/2 allowed	$15/hr 7.50	$ ~~15.00~~
1 T/.	1 T/.	Transportation	$140	$ 140.00
				$2155.00
				- 7.50
				2147.50

Customer 1 61263
By: F.G. Dunker

Customer 1 026951
By: Mick Gallo

RECEIVED
ACCOUNTS PAYABLE
JUL 1 1977

$1.2000.00
$1.175.00

APPROVED BY: [signature]

RECEIVED
JUL 18 1977
CHEMICAL ACCTG.

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF

INVOICE

842600253

Scientific Chemical Processing, Inc.

411 WILSON AVENUE, NEWARK, NEW JERSEY 07105
Telephone (201) 589-7777

INVOICE NO: 6-76
DATE: 6-21-77

SOLD TO: Holland Chemical
100 Doremus Ave.
Newark, N.J. 07105
Attn: Milt Goldberg

SHIP TO ☐ PICK UP AT ☐
(SAME AS SOLD TO UNLESS INDICATED)

6-76	362-5537	Net 10 Days — SCP		
1 T/L	80 drums	Waste Removed 6-20-77	$25/dr	00.00
1 T/L	1 T/L	Delay 2:30-4:30= 1 hr 1/2 t. extra	$15/hr 7.50	~~15.00~~
		Transportation	$110	$ 140.00
				$2155.00
				- 7.50
				2147.50

Category 1 — Profile No. 026351
By: Mick Goldberg

$12000.00
$10155.00

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF

INVOICE

842600254

35

300

C070826

ACCOUNTS PAYABLE DISTRIBUTION (USE BLACK INK)

PURCHASE ORDER NUMBER	DUE DATE MO.	DUE DATE DAY	DUE DATE YR.	VENDOR NO.	ENTRY MO.	ENTRY YR.	DOCUMENT NUMBER (Leave Blank)
362553	07	02	77	013990	07	77	

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT	NET AMOUNT
6-89			2115.00

ROM (N - NOT REQUIRED, P - PRESENT, R - REQ/NOT PRESENT)	Quot.	APPROVED (Initials)	APPROVAL ID	MANUAL CHECK	SPEC.	TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT.
N	N	I	61263			

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	R/C CODE	AMOUNT
		0070500	362	51023	226	010810	2115-

JUL 20 1977

VENDOR CODE

CODED BY	EMPLOYEE NO.	INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)	TOTAL DISTRIBUTION
W	01564		2115-

842600255

Scientific Chemical Processing, Inc.

411 WILSON AVENUE, NEWARK, NEW JERSEY 07105
Telephone (201) 589-7777

SOLD TO: Ashland Chemical
400 Doremus Ave.
Newark, N.J. 07105

INVOICE NO: 6-89
DATE: 6-22-77

EXAMINED: SHIP TO ☐ PICK UP AT ☐ (SAME AS SOLD TO UNLESS INDICATED)

F-89	362-5537	Net 10 Days	ASHLAND CHEMICALS	PPD.	COLL.
				X	

QTY APPROXIMATE	QTY ACTUAL	DESCRIPTION	PRICE	AMOUNT
1 T/L	79 drums	Waste Removed 6-21-77	$25/dr	$1975.00
1 T/L	1 T/L	Transportation	$140	$ 140.00
				$2115.00

Category: 1 Job No. 61263
By: P.G.Decker

RECEIVED
ACCOUNTS PAYABLE
JUL 1 1977

RECEIVED
JUL 18 1977

V1$1975.00
P1$ 140.00

SUBJECT TO CHEMICAL WASTE CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF

INVOICE

842600256

37

300

ACCOUNTS PAYABLE DISTRIBUTION (USE BLACK INK)

D070015

PURCHASE ORDER NUMBER	DUE DATE MO.	DAY	YR.	VENDOR NO.	DISC. %
362553.7	07	11	77	0139906307	77

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT	NET AMOUNT
6-162			211.50

RCM	W – NOT REQUIRED / P – PRESENT / R – REQ./NOT PRESENT	Cont.	APPROVAL ID	MANUAL CHECK	SPEC.	TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT.
N		N	1 6126 3			

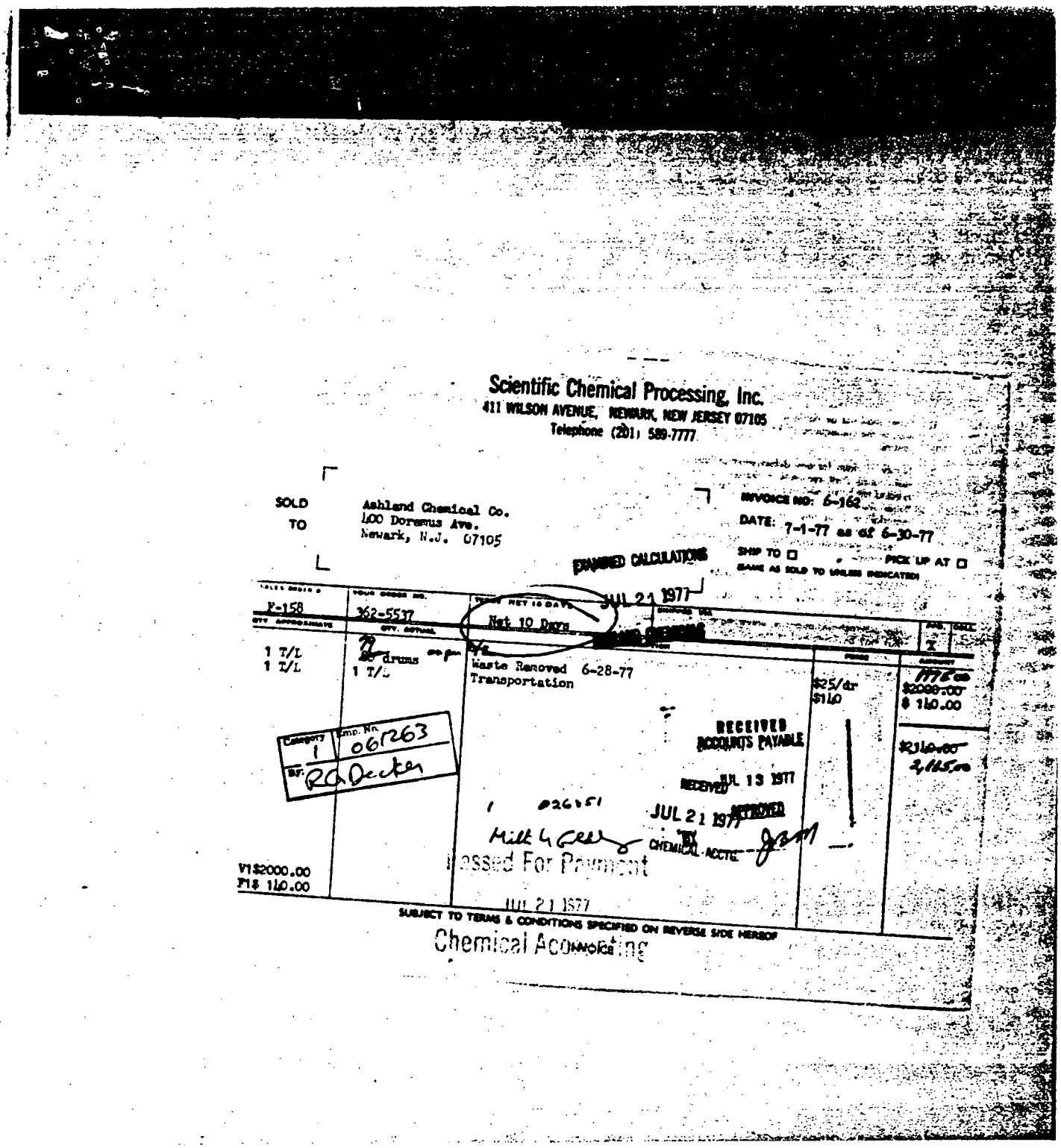
STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	B/C CODE	AMOUNT
		007500	362	810237	226	010810	211.50

JUL 08 1977

Voided Date

CODED BY	EMPLOYEE NO.	INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)	TOTAL DISTRIBUTION
W	815654		211.50

842600257



Scientific Chemical Processing, Inc.
411 WILSON AVENUE, NEWARK, NEW JERSEY 07105
Telephone (201) 589-7777

SOLD TO
Ashland Chemical Co.
400 Doremus Ave.
Newark, N.J. 07105

INVOICE NO: 6-162
DATE: 7-1-77 as of 6-30-77
SHIP TO ☐ PICK UP AT ☐
SAME AS SOLD TO UNLESS INDICATED

DISCUSSED CALCULATIONS

JUL 21 1977

SALES ORDER #	YOUR ORDER NO.	TERMS NET 10 DAYS	SHIPPED VIA	ACCT. CODE
F-158	362-5537	Net 10 Days		X

QTY. APPROXIMATE	QTY. ACTUAL	DESCRIPTION	PRICE	AMOUNT
1 T/L	20 drums	Waste Removed 6-28-77	$25/dr	$2000.00
1 T/L	1 T/L	Transportation	$140	$ 140.00

Category 1 Emp. No. 061263
By: RG Decker

RECEIVED
ACCOUNTS PAYABLE
RECEIVED JUL 13 1977

1 026151
JUL 21 1977 RECEIVED
Milt Green CHEMICAL ACCTG.

V1$2000.00
F1$ 140.00

Passed For Payment
JUL 21 1977
Chemical Accounting

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF

842600258

38

300

ACCOUNTS PAYABLE DISTRIBUTION (USE BLACK INK)

0870818

PURCHASE ORDER NUMBER	DUE DATE MO.	DUE DATE DAY	DUE DATE YR.	VENDOR NO.	VENDOR SUF.	DOCUMENT CODE
3,6,2,5,5,3,7,	0,7	1,8	7,7	0,1,3,9,9,0,6,3	0,1,1,7	

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT	NET AMOUNT
7-1			4212 50

RCM (N – NOT REQUIRED, P – PRESENT, R – REQ./NOT PRESENT)	Cont.	APPROVAL ID	MANUAL CHECK	SPEC.	TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT.
N	N	1 26851			

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	R/C CODE	AMOUNT
		0,0,7,5,0,0	3,6,2	5,1,0,2,3,7	2,2,6	0,1,0,5,1,0	4212 50

JUL 23 1977

VENDOR CODE

CODED BY	EMPLOYEE NO.	INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)	TOTAL DISTRIBUTION
LV	015654		4212 50

842600259

Scientific Chemical Processing, Inc.

411 WILSON AVENUE, NEWARK, NEW JERSEY 07105
Telephone (201) 589-7777

INVOICE NO. 7-1-

DATE: 7-8-77

SOLD TO
Ashland Chemical
400 Doremus Ave.
Newark, N.J. 07105
Attn: Milt Goldberg

SHIP TO ☐ PICK UP AT ☐
SAME AS SOLD TO UNLESS INDICATED

SALE'S ORDER #	YOUR ORDER NO.	TERMS NET 10 DAYS	SHIPPED VIA	TAX
8-1	362-5537	Net 10 Days	SCP	X

QTY APPROXIMATE	QTY ACTUAL	DESCRIPTION	PRICE	AMOUNT
2 T/L	79 drums	Waste Removal 7-6-77	$25/dr	$1975.00
	78 drums	Waste Received 7-6-77	$25/dr	$1950.00
		Delay 9:00-11:00= 2 hr	$15/hr	$30.00
2 T/L	2 T/L	Transportation	$100/TL	$ 200.00
				$4220.00
				$212.50

RECEIVED
ACCOUNTS PAYABLE
JUL 19 1977

ASHLAND CHEMICALS
RECEIVED
JUL 21 1977
CHEMICAL ACCTG.

APPROVED
BY

V1$3925.00
P1$ 295.00

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF

INVOICE

842600260

39

300

ACCOUNTS PAYABLE DISTRIBUTION (USE BLACK INK)

B076617

PURCHASE ORDER NUMBER	RELEASE NO.	VENDOR NO.	DOCUMENT NUMBER (Leave Blank)
362555377	07 24 77	0139906	307177

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT	NET AMOUNT
7-16			2140.00

RCM	Cont.	APPROVAL ID	MANUAL CHECK	SPEC.	TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT.
N (N – NOT REQUIRED, P – PRESENT, R – REQ./NOT PRESENT)	N	1 26851			

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	R/C CODE	AMOUNT
		00750P	362	5.10.2.37	326	0.1.0.8.1.0	2140-

JUL 23 1977

VENDOR CODE

CODED BY	EMPLOYEE NO.	INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)	TOTAL DISTRIBUTION
W	015654		2140-

842600261

Scientific Chemical Processing, Inc.

411 WILSON AVENUE, NEWARK, NEW JERSEY 07105
Telephone (201) 589-7777

SOLD TO
Ashland Chemical
400 Doremus Ave.
Newark, N.J. 07105

INVOICE NO: 7-16
DATE: 7-14-77
SHIP TO ☐ PICK UP AT ☐
SAME AS SOLD TO UNLESS INDICATED

SALES ORDER #	YOUR ORDER NO.	TERMS	SHIPPED VIA	FOB	ABBR.
0-16	362-5537	Net 10 Days	SCP		X

QTY APPROXIMATE	QTY ARRIVAL	DESCRIPTION	PRICE	AMOUNT
1 T/L	80 drums	Waste Removed 7-13-77	$25/dr	$2000.00
1 T/L	1 T/L	Transpertated JUL 21 1977	$140	$ 140.00
		ASHLAND CHEMICALS		$2140.00
		1 026851	RECEIVED ACCOUNTS PAYABLE	
		Milton A Gallo RECEIVED	JUL 19 1977	
		JUL 21 1977	APPROVED	
		CHEMICAL ACCTG.	BY	

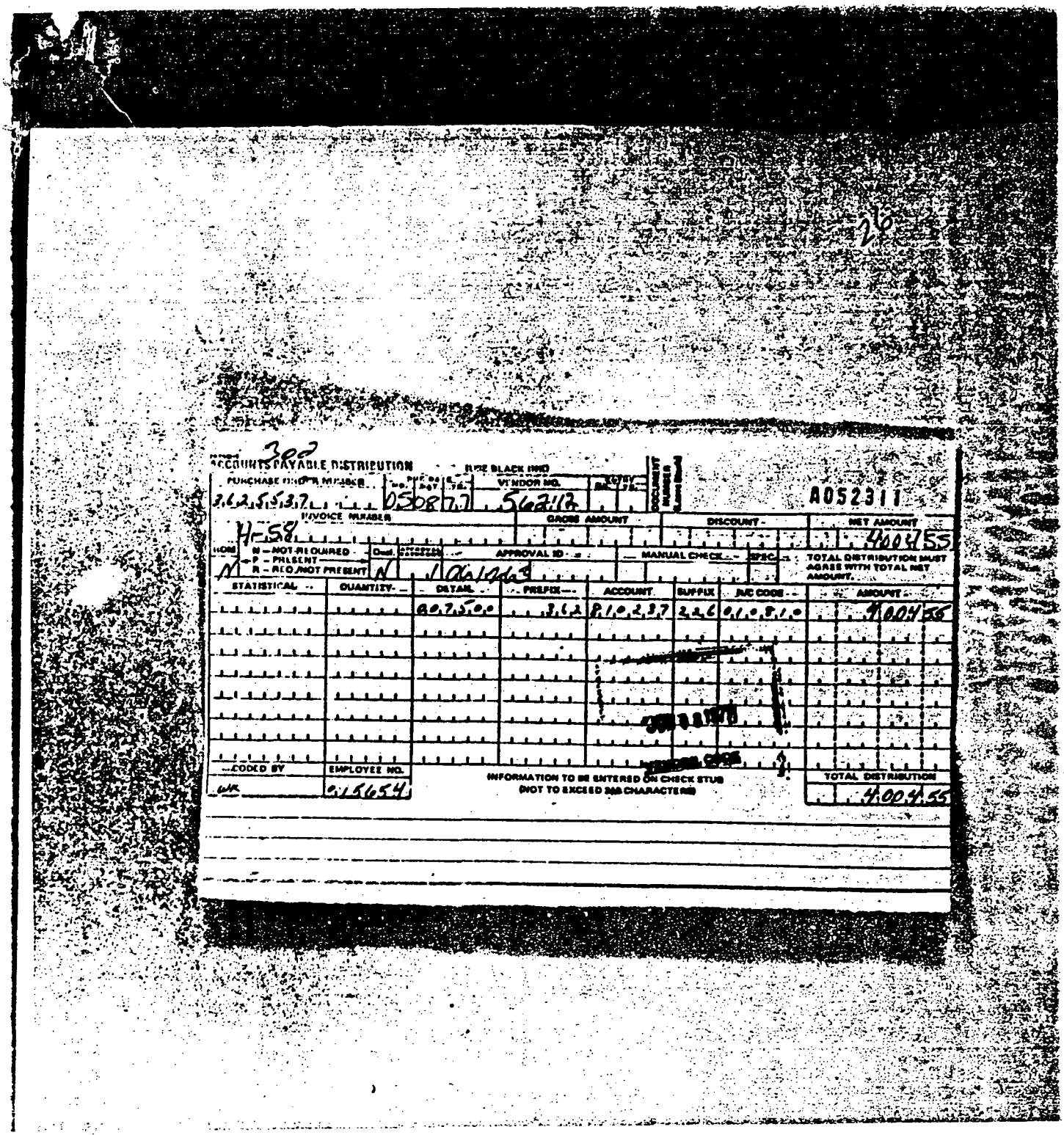
V1 $2000.00
P1 $140.00

Passed For Payment
Chemical Accounting

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF

INVOICE

842600262



ACCOUNTS PAYABLE DISTRIBUTION

PURCHASE ORDER NUMBER: 3625537 | DO. | P.C. DO | P.C. DEPT | VENDOR NO. 562117 | SUFFIX | DOCUMENT NUMBER: A052311

INVOICE NUMBER: HF58 | GROSS AMOUNT | DISCOUNT | NET AMOUNT: 400455

CODE: M – NOT REQUIRED, P – PRESENT, R – REQ/NOT PRESENT: N | Qual. | APPROVAL ID | MANUAL CHECK | SPEC | TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT.

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	JVC CODE	AMOUNT
		807500	362	P102377	226	01051	400455

CODED BY: WR | EMPLOYEE NO.: 015654

INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)

TOTAL DISTRIBUTION: 400455

842600263

Scientific Chemical Processing, Inc.

411 WILSON AVENUE, NEWARK, NEW JERSEY 07105
Telephone (201) 589-7777

PLEASE PAY ON THIS INVOICE

INVOICE NO: 4-58

DATE: 4-28-77

SOLD TO: Ashland Chemical, 400 Doremus Ave, Newark, N.J. 07105

SHIP TO ☐ PICK UP AT ☐ SAME AS SOLD TO UNLESS INDICATED

Passed For Payment
JUN 07 1977
Chemical Accounting

SALES ORDER #	YOUR ORDER NO.	TERMS	SHIPPED VIA	FOB	TAX
D-58	362-5537	Net 10 Days	SCP		X

QTY. APPROXIMATE	QTY. ACTUAL	DESCRIPTION	PRICE	AMOUNT
2 T/L	80 Drums	Solids Removed 4-23-77	$25/dr	$ 2000.00
		Delay 8:15-10:15= 2 hr	$15/hr	$ 7.50
	80 Drums	Solids Removed	$25/dr	$ 2000.00
	2 T/L	Transportation	$140/T/L	$ 280.00
				$ 4287.50
				28295
				4 on 4.55

EXAMINED AND FOUND CORRECTIONS
JUN 6 1977
PURCHASING DEPT. RECEIVED JUN 01 A.M.

Approved John F Brooks

RECEIVED ACCOUNTS PAYABLE MAY 11 1977

APPROVED BY 5/11/77

OK to Pay MLG 6/1/77

Category 1 | Disp. No. 61263 | By RG Decker

Sewer Waste Water Treatment for Shipping
5/24/77 4,353 Gallons @ .065

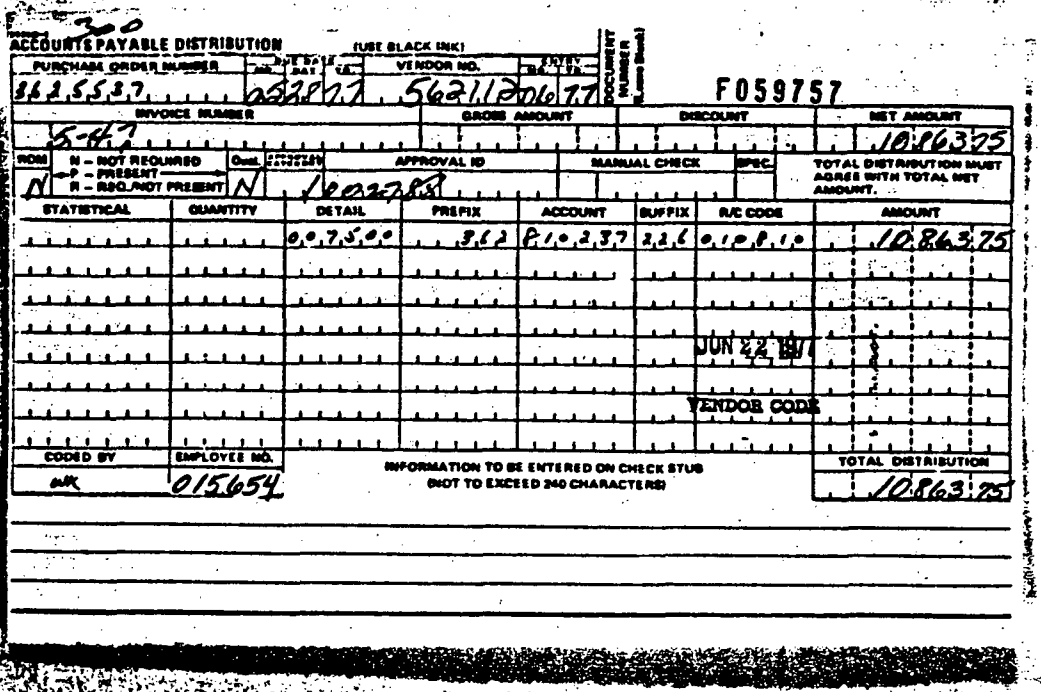
VI $1000.00
VI $287.50

SUBJECT TO THE CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF

JUN 07 1977 INVOICE

842600264

28



ACCOUNTS PAYABLE DISTRIBUTION (USE BLACK INK)

PURCHASE ORDER NUMBER	VENDOR NO.	DOCUMENT NUMBER
362553 7	562112016 77	F059757

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT	NET AMOUNT
5-47			10863.75

ROM: N – NOT REQUIRED, P – PRESENT, R – REQ./NOT PRESENT: N | Cont. | APPROVAL ID: Jean Ann | MANUAL CHECK | SPEC. | TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT.

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	R/C CODE	AMOUNT
		0.0.7.5.0.0	3.6.2	P.1.0.2.3.7	2.2.6	0.1.0.1.0	10.863.75

JUN 22 1977

VENDOR CODE

CODED BY	EMPLOYEE NO.	INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)	TOTAL DISTRIBUTION
MK	015654		10863.75

842600265

Scientific Chemical Processing, Inc.

411 WILSON AVENUE, NEWARK, NEW JERSEY 07105
Telephone (201) 589-7777

PLEASE PAY ON THIS INVOICE

PURCHASING DEPT. RECEIVED JUN 15 P.M.

INVOICE NO: 5-47
DATE: 5-18-77

SOLD TO: Ashland Chemical
1400 Doremus Ave
Newark, N.J. 07105

SHIP TO ☐ PICK UP AT ☐ (SAME AS SOLD TO UNLESS INDICATED)

COLUMBUS, OHIO

RECEIVED JUN 21 1977 CHEMICAL ACCTG

SALES ORDER #	YOUR ORDER NO.	TERMS NET 10 DAYS	SHIPPED VIA	REQ. TRUCK
E-46	362-5537	Net 10 Days	SCP	XX

QTY. APPROXIMATE	QTY. ACTUAL	DESCRIPTION		PRICE	AMOUNT
5 T/L	62 Drums	Misc. Residue Removed	5-1-77	$25/dr	$ 1550.00
	84 Pails	Misc. Residue Removed		$5/ea	$ 420.00
		Delay 10:00-1:00- ½ hr		$15/hr	$ 7.50
	79 Drums	Misc. Residue Removed	5-4-77	$25/dr	$ 1975.00
	63 Drums	Misc. Residue Removed	5-6-77	$25/dr	$ 1575.00
	100 Pails	Misc. Residue Removed		$5/ea	$ 500.00
	72 Drums	Misc. Residue Removed	5-11-77	$25/dr	$ 1800.00
	65 Pails	Misc. Residue Removed		$5/ea	$ 325.00
		Delay 11:00-1:45- 45 min		$15/hr	$ 11.25
	80 Drums	Misc. Residue Removed		$25/dr	$ 2000.00
					$10163.75
				$110/ld	700.00
V1 $10115.00 F1 $718.75					$10863.75

Passed For Payment JUN 21 1977 Chemical Accounting

OK

RECEIVED ACCOUNTS PAYABLE JUN 21 1977

Category | Emp. No. 2788

By

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF

INVOICE

6/16/77

842600266

29.

300

ACCOUNTS PAYABLE DISTRIBUTION (USE BLACK INK)

PURCHASE ORDER NUMBER	MO.	DAY	YR.	VENDOR NO.	MO.	YR.	DOCUMENT NUMBER
862553737	06	30	77	563112	06	77	F059759

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1563			2165.00

ROM	N – NOT REQUIRED P – PRESENT R – REQ./NOT PRESENT	Qual.	APPROVAL ID	MANUAL CHECK	SPEC.	TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT.
N	N	N	1261063			

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	R/C CODE	AMOUNT
		00750	362	810237	226	010810	2165-

JUN 22 1977

Validation Code

CODED BY	EMPLOYEE NO.	INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)	TOTAL DISTRIBUTION
MK	015654		2165-

842600267

Scientific Chemical Processing, Inc.
411 WILSON AVENUE, NEWARK, NEW JERSEY 07105
Telephone (201) 589-7777

PLEASE PAY ON THIS INVOICE

INVOICE NO: 5-63
DATE: 5-20-77
SHIP TO ☐ PICK UP AT ☐
SAME AS SOLD TO UNLESS INDICATED

SOLD TO
Ashland Chemical
400 Doremus Ave
Newark, N.J. 07105

Passed For Payment
Chemical Accounting

SALES ORDER #	YOUR ORDER NO.	TERMS NET 10 DAYS	SHIPPED VIA	REQ.	COLL.
E-62	362-5537	Net 10 Days	SCP197	X	

QTY. APPROXIMATE	QTY. ACTUAL	DESCRIPTION	PRICE	AMOUNT
1 T/L	81 Drums	Misc. Residue Removed	$25/dr	$ 2025.00
		Transportation	$110.00	$ 110.00
				$ 2165.00

PURCHASING DEPT.
RECEIVED
JUN 9 A.M.
COLUMBUS, OHIO

V1 $2025.00
V1 $110.00

RECEIVED JUN - 1 1977 LAUMONT
Category 3 Emp. No. 251
By: MMGelling

Category 7 Emp. No. 61263
By RGDocken

APPROVED FOR PAYMENT
RECEIVED ACCOUNTS PAYABLE
MAY 27 1977

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE OF THIS INVOICE

RECEIVED
ACCOUNTS PAYABLE
06/1/24

RECEIVED
ACCOUNTS PAYABLE
JUN 6 1977

APPROVED
94 6/10

842600268

Scientific Chemical Processing, Inc.
411 WILSON AVENUE, NEWARK, NEW JERSEY 07105
Telephone (201) 589-7777

PLEASE PAY ON THIS INVOICE

SOLD TO: Ashland Chemical
400 Doremus Ave
Newark, N.J. 07105

INVOICE NO: 5-63
DATE: 5-20-77
SHIP TO ☐ PICK UP AT ☐
SAME AS SOLD TO UNLESS INDICATED

Passed For Payment
Chemical Accounting

SALES ORDER #	YOUR ORDER NO.	TERMS NET 10 DAYS	SHIPPED VIA	PPD.	COLL.
E-62	362-5537	Net 10 Days	Str.	5-20-77	X

QTY. APPROXIMATE	QTY. ACTUAL	DESCRIPTION	PRICE	AMOUNT
1 T/L	81 Drums	Misc. Residue Removed	$25/dr	$ 2025.00
		Transportation	$110.00	$ 110.00
				$ 2165.00

PURCHASING DEPT.
RECEIVED
JUN 9 A.M.
COLUMBUS, OHIO

V1 $2025.00
F1 $110.00

RECEIVED JUN - 1 1977 CHEMICAL ACCOUNTING

Category 3 Line No. 51
By: MAGelling

Category 7 Emp. No. 61263
By: RGDocken

RECEIVED ACCOUNTS PAYABLE
MAY 27 1977

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE OF THIS INVOICE

RECEIVED
JUN 6 1977

PAYMENT

842600269

30

30

ACCOUNTS PAYABLE DISTRIBUTION (USE BLACK INK)

F059758

PURCHASE ORDER NUMBER	MO.	DAY	YR.	VENDOR NO.	PO	VOU.	DOCUMENT NUMBER (Leave Blank)
362553	06	04	77	562117	06	77	

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT	NET AMOUNT
5-85			20650

NOM	N – NOT REQUIRED / P – PRESENT / R – REQ. NOT PRESENT	Cont.	APPROVAL ID	MANUAL CHECK	SPEC.	TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT.
N		N	061263			

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	R/C CODE	AMOUNT
		00750	362	P10237	226	010P10	2065-

JUN 22 1977

VENDOR CODE

CODED BY	EMPLOYEE NO.	INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)	TOTAL DISTRIBUTION
WK	06160		2065-

1

842600270

Scientific Chemical Processing, Inc.

411 WILSON AVENUE, NEWARK, NEW JERSEY 07105
Telephone (201) 589-7777

PURCHASING DEPT.
RECEIVED
JUN 15 P.M.
COLUMBUS, OHIO

SOLD TO: Ashland Chemical
100 Doremus Ave
Newark, N.J. 07105

INVOICE NO: 5-85
DATE: 5-25-77
SHIP TO ☐ PICK UP AT ☐
SAME AS SOLD TO UNLESS INDICATED

SALES ORDER #	YOUR ORDER NO	TERMS NET 10 DAYS	SHIPPED VIA		PKG. SHIP.
E-83	362-5537	Net 10 Days	SCP	5-20-77	X

QTY. APPROXIMATE	QTY. ACTUAL	DESCRIPTION	PRICE	AMOUNT
1 T/L	77 Drums	Solid Scrap Resin Removed	$25/dr	$ 1925.00
		Transportation	$110.00	$ 110.00
				$ 2065.00

RECEIVED JUN 21 1977 CHEMICAL ACCOUNTING

Category 1 Loc. No. 61263
By RG Passed For Payment

Category 3 46951

JUN 21 1977
Chemical Accounting

CHECKED CALCULATIONS
JUN 20 1977
ASHLAND CHEMICAL

JUN 6 1977
APPROVED
BY 6/16/77

VI $1925.00
FI $110.00

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF

INVOICE

842600271

41

300

ACCOUNTS PAYABLE DISTRIBUTION (USE BLACK INK)

E094316

PURCHASE ORDER NUMBER	DUE DATE MO.	DAY	YR.	VENDOR NO.	ENTRY MO.	YR.	DOCUMENT NUMBER
362355377	07	30	77	0139063	07	77	

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT	NET AMOUNT
7-36			20400

ROM	N - NOT REQUIRED / P - PRESENT / R - REQ /NOT PRESENT	Qual.	APPROVAL ID	MANUAL CHECK	SPEC.	TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT.
N		N	106/263			

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	R/C CODE	AMOUNT
		0075000	362	8102377	226	0108100	20,400.00

DB

CODED BY	EMPLOYEE NO.	INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)	TOTAL DISTRIBUTION
HH	015304		20,400.00

842600272

Scientific Chemical Processing, Inc.

411 WILSON AVENUE, NEWARK, NEW JERSEY 07105
Telephone (201) 589-7777

INVOICE NO: 7-36
DATE: 7-20-77

SOLD TO: [illegible]land Chemical
[illegible]00 Doremus Ave
[illegible]ewark, [illegible]. 07105

SHIP TO ☐ PICK UP AT ☐
(SAME AS SOLD TO UNLESS INDICATED)

CUSTOMER'S ORDER NO.	YOUR ORDER NO.	TERMS NET 10 DAYS	SHIPPED VIA		PPD. COLL.
7-35	[illegible]-5537	Net 10 Days	SCP	7-18-77	X

QTY APPROXIMATE	QTY ACTUAL	DESCRIPTION	PRICE	AMOUNT
1 T/	7- Drums	Misc. Chemical Waste Removal Transportation CHARGEL CALCULATIONS	285/dr 210.00	$ 1900.00 $ 160.00
				$ 2060.00
T1 1900.00 F1 [illegible]10.00				

RECEIVED
ACCOUNTING DEPT.
JUL 27
BY

AUG 05 1977
ASHLAND CHEMICALS
026451

Category 1 | Emp. No. 061263
By: R G Decker

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF

INVOICE

842600273

+2

300

ACCOUNTS PAYABLE DISTRIBUTION (USE BLACK INK)

C091631

PURCHASE ORDER NUMBER	BUY CLASS	VENDOR NO.	ENTRY	DOCUMENT TYPE
362,553,7	09 01 77	0139906	308 77	

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT	NET AMOUNT
7-62			21,150.00

ROM	N – NOT REQUIRED P – PRESENT R – REQ. NOT PRESENT	Comm.	APPROVAL ID	MANUAL CHECK	SPEC.	TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT.
N		N	106263			

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	R/C CODE	AMOUNT
		00,750	362	81,023,77	226	01,081,10	21,15 -
		AUG. 81ST.					
		VENDOR CODE					

CODED BY	EMPLOYEE NO.	INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)	TOTAL DISTRIBUTION
DD	015209		21,150.00

842600274

Scientific Chemical Processing, Inc.

411 WILSON AVENUE, NEWARK, NEW JERSEY 07105
Telephone (201) 589-7777

SOLD TO: Ashland Chemical
100 Doremus Ave
Newark, N.J. 07105

INVOICE NO: 7-62
DATE: 7-22-77
SHIP TO ☐ PICK UP AT ☐
(SAME AS SOLD TO UNLESS INDICATED)

SALES ORDER #	YOUR ORDER NO.	TERMS NET 10 DAYS	SHIPPED VIA	F.O.B. COLL
C-61	362-5537	Net 10 Days	SCP 7-20-77	X

QTY APPROXIMATE	QTY ACTUAL	DESCRIPTION	PRICE	AMOUNT
1 T/L	79 Drums	Solid Waste Removed Transportation	$25/dr $110.00	$ 1975.00 $ 110.00
				$ 2115.00

RECEIVED AUG 0 6 1977
ASHLAND CHEMICALS
1 0-5851

RECEIVED
ACCOUNTS PAYABLE
JUL 29 1977
APPROVED
BY

Passed For Payment
AUG 0 8 1977
Chemical Accounting

Category	Emp. No.
1	061263
By: RG Decker	

V1 $1975.00
F1 $110.00

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF

INVOICE

842600275

43

300

ACCOUNTS PAYABLE DISTRIBUTION (USE BLACK INK)

B075218

PURCHASE ORDER NUMBER	DUE DATE	VENDOR NO.	DOCUMENT CONTROL NUMBER
362553 7	07 28 77	01399063	077 7

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT	NET AMOUNT
7-22			1,400

RUSH	N - NOT REQUIRED / P - PRESENT / R - REQ./NOT PRESENT	Cont.	APPROVAL ID	MANUAL CHEC	SPEC.	TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT
N		N	126951			

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	R/C CODE	AMOUNT
		0075000	362	102377	226	0108100	140-
AUC 0 1977							
VENDOR CODE							

CODED BY	EMPLOYEE NO.	INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)	TOTAL DISTRIBUTION
	11-01565H		140-

842600276

Scientific Chemical Processing, Inc.

411 WILSON AVENUE, NEWARK, NEW JERSEY 07105
Telephone (201) 589-7777

SOLD TO
Ashland Chemical Co.
400 Doremus Ave.
Newark, N.J. 07105
Attn: Milt Goldberg

INVOICE NO: 7-22
DATE: 7-18-77
SHIP TO ☐ PICK UP AT ☐
SAME AS SO TO UNLESS INDICATED

SALES ORDER #	YOUR ORDER NO	TERMS NET 10 DAYS	SHIPPED VIA	PRE PAID
S-22	302-5537	Net 10 Days	SCP	X

QTY APPROXIMATE	QTY ACTUAL	DESCRIPTION	PRICE	AMOUNT
		Scheduled P/U on July 14, 1977 by Milt Goldberg. When truck arrived Ashland would not load us. Transportation charges		
1 T/A	1 T/A	Transportation	150	$ 150.00
		RECEIVED ACCOUNTS PAYABLE JUL 29 1977		
		APPROVED FOR PAYMENT EXAMINED BY ACCOUNTING OPERATIONS AUG 1 1977		
		016957		
	RECEIVED			
$150.00	AUG 2 1977	ASHLAND CHEMICALS		

CHEMICAL DIVISION SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF

INVOICE

842600277

Scientific Chemical Processing, Inc.

411 WILSON AVENUE, NEWARK, NEW JERSEY 07105
Telephone (201) 589-7777

SOLD TO: Ashland Chemical Co.
100 Terminal Ave.
Newark, N.J. 07105
Attn: Milt Goldberg

INVOICE NO: 7-22
DATE: 7-18-77

SHIP TO ☐ PICK UP AT ☐
SAME AS SOLD TO UNLESS INDICATED

7-22	330-5537	Net 10 Days	SCP		X
1 T/T	1 T/M	Scheduled P/U on July 14, 1977 by Milt Goldberg. When truck arrived Ashland would not load us. Transportation charge. Transportation		$110	$ 110.00
		1 2x9s7			
F1$110.00					

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF

INVOICE

842600278

41

300

ACCOUNTS PAYABLE DISTRIBUTION (USE BLACK INK)

D091776

PURCHASE ORDER NUMBER	INV. DATE	VENDOR NO.	ENTRY DATE
362553.7	08 19 77	A1299063	08 77

INVOICE NUMBER: 8-7

RCM	Cont.	GROSS AMOUNT	DISCOUNT	NET AMOUNT
N	N			2040.00

N – NOT REQUIRED; P – PRESENT; R – REQ./NOT PRESENT

APPROVAL ID: 1 6 1 2 6 3 — MANUAL CHECK — SPEC.

TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT.

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	R/C CODE	AMOUNT
		0 0 7 5 0 0	3 6 2	P 1 0 2 3 7	3 2 6	0 1 0 8 1 0	2040

CODED BY: W — EMPLOYEE NO.: 0 1 5 6 5 4

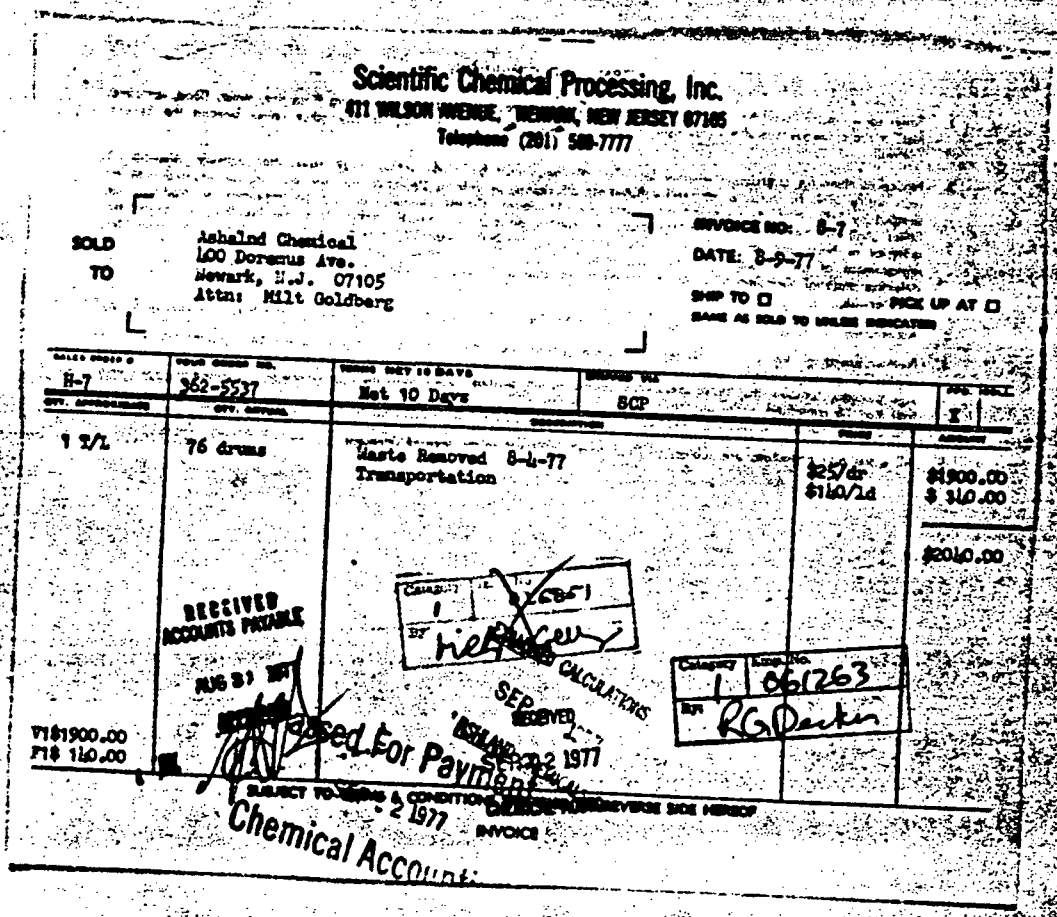
INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 340 CHARACTERS)

TOTAL DISTRIBUTION: 2040

SEP 06 [illegible]

VENDOR CODE

842600279



Scientific Chemical Processing, Inc.
611 WILSON AVENUE, NEWARK, NEW JERSEY 07105
Telephone (201) 589-7777

SOLD TO
Ashalnd Chemical
400 Doremus Ave.
Newark, N.J. 07105
Attn: Milt Goldberg

INVOICE NO: 8-7
DATE: 8-9-77
SHIP TO ☐ PICK UP AT ☐
SAME AS SOLD TO UNLESS INDICATED

SALES ORDER #	YOUR ORDER NO.	TERMS: NET 10 DAYS	SHIPPED VIA	DEL. SINCE
8-7	362-5537	Net 10 Days	SCP	X

QTY. SHIPPED	QTY. ORDERED	DESCRIPTION	PRICE	AMOUNT
1 T/L	76 drums	Waste Removed 8-4-77 Transportation	$25/dr $140/ld	$1900.00 $ 140.00
				$2040.00

RECEIVED
ACCOUNTS PAYABLE
AUG 31 1977

Category 1 CC8-1
BY Hellmuth

CALCULATIONS

Category 1 Ledger No. 061263
BY RG Parker

SEP RECEIVED
ASHLAND CHEMICAL
SEP 2 1977

T1 $1900.00
T1 $ 140.00

Approved For Payment
SEP 2 1977
Chemical Account

SUBJECT TO TERMS & CONDITIONS ON REVERSE SIDE HEREOF
INVOICE

842600280

48

300

ACCOUNTS PAYABLE DISTRIBUTION (USE BLACK INK)

D098177

PURCHASE ORDER NUMBER	DATE	VENDOR NO.	DOCUMENT NUMBER
362,553,7	08 26 77	0139063	

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT	NET AMOUNT
8-38			2,166.25

RCMS	N – NOT REQUIRED / P – PRESENT / R – REQ/NOT PRESENT	Cust. Access.	APPROVAL ID	MANUAL CHECK	SPEC.	TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT
N	N		1 61263			

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	B/C CODE	AMOUNT
		007500	362	P102377	226	010810	2166.25

CODED BY	EMPLOYEE NO.	INFORMATION TO BE IMPRINTED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)	TOTAL DISTRIBUTION
W	015654		2166.25

SEP 15 1977

VENDOR CODE

842600281

Scientific Chemical Processing, Inc.

411 WILSON AVENUE, NEWARK, NEW JERSEY 07105
Telephone (201) 589-7777

SOLD TO
Ashland Chemical
400 Doremus Ave
Newark, N.J. 07105

INVOICE NO: 8-38
DATE: 8-16-77
SHIP TO ☐ PICK UP AT ☐
(SAME AS SOLD TO UNLESS INDICATED)

SALES ORDER #	YOUR ORDER NO.	TERMS NET 10 DAYS	SHIPPED VIA	DATE SHIPPED	CASH	CHARGE
7-37	361-5537	Net 10 Days	TRUCK	8-11-77		X

QTY. SHIPPED	QTY. ACTUAL	DESCRIPTION	PRICE	AMOUNT
1 T/L	80 Drums	Misc. Solids Removed	25/dr	$ 2000.00
		Delay 2:15-5:30= 3 hr	$15/hr	$ 26.25
		Transportation	$110.00	$ 110.00
				$ 2166.25

RECEIVED SEP 1 1977 CLAIMS
ASHLAND CHEMICALS
OK
RECEIVED ACCOUNTS PAYABLE AUG 29 1977
061263
RECEIVED BY SEP 14 1977
CHEMICAL
Vl 2000.00
Fl 2166.25

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF

INVOICE

842600282

51

300

ACCOUNTS PAYABLE DISTRIBUTION (USE BLACK INK)

C112712

PURCHASE ORDER NUMBER	BUS. RATE No.	BUS. RATE SAT.	BUS. RATE T.R.	VENDOR NO.	ENTITY No.	ENTITY T.R.	DOCUMENT NUMBER
362537	09	01	77	0139906	369	77	

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT	NET AMOUNT
8-77			21,15.00

ROM (N – NOT REQUIRED; P – PRESENT; R – REQ./NOT PRESENT)	Cust.	APPROVAL ID	MANUAL CHECK	SPEC.	TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT
N	N	61263			

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	R/C CODE	AMOUNT
		00750	362	10237	236	01-81-0	21.15.00

SEP 19 1977

CODED BY	EMPLOYEE NO.	INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)	TOTAL DISTRIBUTION
W	015654	VENDOR CODE	21.15.00

842600283

Scientific Chemical Processing, Inc.

411 WILSON AVENUE, NEWARK, NEW JERSEY 07105
Telephone (201) 589-7777

SOLD TO: Ashland Chemical
100 Doremus Ave
Newark, N.J. 07105

INVOICE NO: 8-77
DATE: 8-22-77
SHIP TO ☐ PICK UP AT ☐
(SAME AS SOLD TO UNLESS INDICATED)

SALES ORDER #	YOUR ORDER NO.	TERMS NET 10 DAYS	SHIPPED VIA	PPD	COLL.
H-75	362-5537	Net 10 Days	SCP 8-18-77	X	

QTY. APPROXIMATE	QTY. ACTUAL	DESCRIPTION	PRICE	AMOUNT
1 T/L	79 Drums	Solid Waste Removed	$25/dr	$ 1975.00
		Transportation	$110.00	$ 110.00
				$ 2115.00

DELIVERED SOLICITATIONS
SEP 16 1977
ASHLAND CHEMICALS

RECEIVED
ACCOUNTS PAYABLE
SEP 18 1977

APPROVED

Category	Emp. No.
1	03651

By: Hilton Excell

Category	
1	061263

By: RG Decker

Vl $1975.00
Fl $110.00

Passed For Payment

RECEIVED
SEP 19 1977
CHEMICAL ACCTG.

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF

Chemical Accounting

842600284

Scientific Chemical Processing Inc

411 WILSON AVENUE, [illegible], NEW JERSEY 07[illegible]

Telephone (201) 589 7777

SOLD [illegible] Chemical
[illegible] Corporation
TO [illegible] 07[illegible]

INVOICE NO -

DATE [illegible]

SHIP TO ☐ PICK UP AT ☐

SAME AS SOLD TO UNLESS INDICATED

[illegible]	[illegible]	Net 10 Days	[illegible]	8-26-87	
1 [illegible]	TV [illegible]	Solid Waste Removal Transportation		$/hr $/hr	1975.00 140.00
					2115.00
1 1975.00 1 140.00					

[illegible]
[illegible]

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF

INVOICE

J

842600285

52.

C212460

ACCOUNTS PAYABLE DISTRIBUTION (USE BLACK INK)

PURCHASE ORDER NUMBER	INV. DATE MO.	DAY	YR.	VENDOR NO.	PAY TO NO.	TA.
362-6541	04	30	78	0139063	04	28

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT	NET AMOUNT
4-58			2060.00

ROM	N - NOT REQUIRED / P - PRESENT / R - REQ/NOT PRESENT	Cont.	APPROVAL ID	MANUAL CHECK	SPEC.	TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT
N		N	3 6 1 1 24			

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	R/C CODE	AMOUNT
		0 0 7 5 0 0	36	5 1 0 3 3 9	2 3 6	0 1 0 5 1 0	1 9 4 50
				2 1 1 3 2 9	6 3 8	CACOCY	1 0 4 50

MAY 05 1978

CODED BY	EMPLOYEE NO.	INFORMATION ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)	TOTAL DISTRIBUTION
U	015054		2090.00

842600286

S C P

SCIENTIFIC CHEMICAL PROCESSING, INC.
411 WILSON AVENUE, NEWARK, NEW JERSEY 07105
(201) 589-7777

SOLD TO
Ashland Chemical Co.
Resin & Plastics Division
400 Doremus Ave.
Newark, N.J. 07105

INVOICE NO: 4-58
DATE: 4-20-78
SHIP TO ☐ PICK UP AT ☐
(SAME AS SOLD TO UNLESS INDICATED)

SALES ORDER #	YOUR ORDER NO.	TERMS NET 10 DAYS	SHIPPED VIA	F.O.B.	COLL.
D-58	340-4541	Net 10 Days	SCP 4-18-78		X

QTY. APPROXIMATE	QTY. ACTUAL	DESCRIPTION	PRICE	AMOUNT
1 T/L	78 drums	Waste Removed	$25/dr	$1950.00
1 T/L	1 T/L	Transportation	$140/1d	$ 140.00
				$2090.00

RECEIVED
ACCOUNTS PAYABLE
MAY 01 1978

APPROVED
Check No. 3 041124

RECEIVED BY
APR 28 PM

Passed For Payment
MAY 04 1978
Chemical Accounting

EXAMINED CALCULATIONS
MAY 2 1978
ASHLAND CHEMICALS

V131950.00
F13 140.00

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF

INVOICE

842600287

(62.)

C220660

ACCOUNTS PAYABLE DISTRIBUTION (USE BLACK INK)

PURCHASE ORDER NUMBER	DUE DATE MO.	DUE DATE DAY	DUE DATE YR.	VENDOR NO.	DISCOUNT MO.	DISCOUNT YR.	DISCOUNT (Leave Blank)
362-655-1	05	20	78	0139906	05	78	

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT	NET AMOUNT
S-2			2052.50

RQM	R – NOT REQUIRED P – PRESENT R – REQUIRED/NOT PRESENT	Cont.	ACCOUNTANT APPROVAL	APPROVAL EMPLOYEE NO.	MANUAL CHECK	SPEC.
N		N	3	6111268		

TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT.

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	R/C CODE	AMOUNT
		7500	362	810237	226	910810	1900.00
		7500	362	810295	226	910810	12.50
		7500	362	810296	226	910810	140.00

CODED BY	EMPLOYEE NO.	INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)	TOTAL DISTRIBUTION
	0-01565H		2052.50

JUNO 2 1978

VENDOR

842600288

S C P

SCIENTIFIC CHEMICAL PROCESSING, INC.
411 WILSON AVENUE, NEWARK, NEW JERSEY 07105
(201) 589-7777

ASHLAND CHEMICAL CO.
1978 MAY 15 PM 9:58
RECEIVING NO. N-5-2

Issued For Information

SOLD TO
Ashland Chemical Co.
Resin & Plastics Division
100 Doremus Ave.
Newark, N.J. 07105

MAY 31 1978

DATE: 5-10-78

SHIP TO ☐ PICK UP AT ☐
(SAME AS SOLD TO UNLESS INDICATED)

Chemical Accounting

SALES ORDER #	YOUR ORDER NO.	TERMS NET 10 DAYS	SHIPPED VIA	PPD.	COLL.
N-2	362-651	Net 10 Days	SCP 5-2-78	X	

QTY. APPROXIMATE	QTY. ACTUAL	DESCRIPTION	PRICE	AMOUNT
1 T/L	76 drums	Waste Solvent	$25/dr	$1900.00
		Delay 9:15-11:15= 1 hr	$25/hr	25.00
1 T/L	1 T/L	Transportation	$110/1d	$ 110.00
				$2035.00
				2052.50

RECEIVED
ACCOUNTS PAYABLE
MAY 24 1978

APPROVED
BY

EXAMINED CALCULATIONS
MAY 24 1978
ASHLAND CHEMICAL

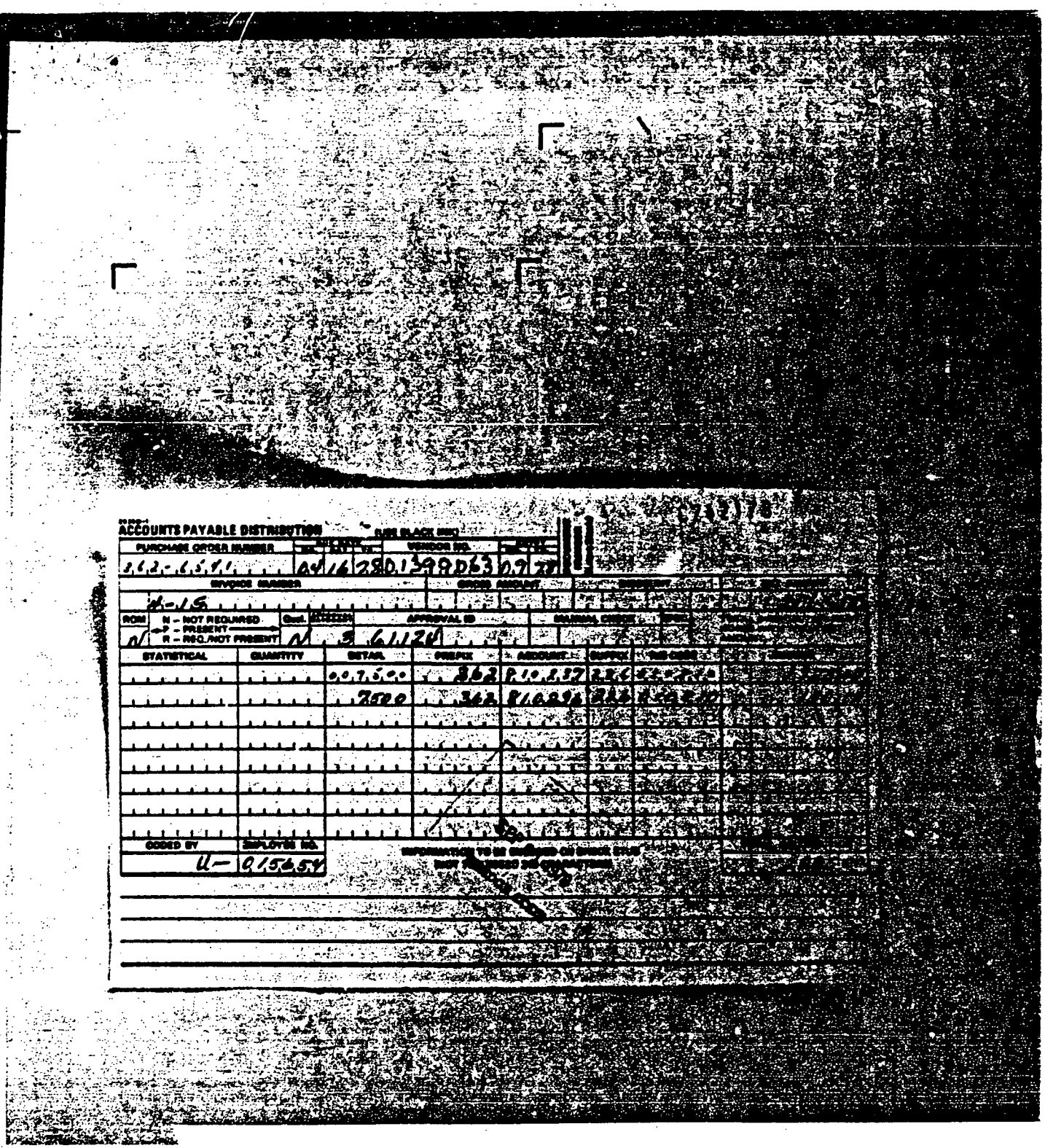
3 | 061124
AUTH

T 81900.00
F 18 165.00

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF

INVOICE

842600289



ACCOUNTS PAYABLE DISTRIBUTION

PURCHASE ORDER NUMBER		VENDOR NO.	
3 6 2 - 6 5 9 1	04/16	2801399D63	09

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT
4-15		

ROM	N – NOT REQUIRED / P – PRESENT / R – REQ./NOT PRESENT	Cust.	APPROVAL ID	SALVAGE CODE
N	N		3 61120	

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	TAX CODE
		00750	362	810837	226	
		7500	362	810834	226	

CODED BY	EMPLOYEE NO.
U	015454

INFORMATION TO BE ENTERED ON BACK SIDE
DO NOT ENTER BELOW THIS LINE

842600290

SCP

SCIENTIFIC CHEMICAL PROCESSING, INC.

811 WILSON AVENUE, NEWARK, NEW JERSEY 07105

(201) 589-7777 — REMARK: PAY OFF THIS INVOICE

SOLD TO
Ashland Chemical Co.
Resin & Plastics Division
100 Doremus Ave.
Newark, N.J. 07105

INVOICE NO. A-15
DATE 4-7-78

SALES ORDER #	YOUR ORDER NO.	TERMS: NET 10 DAYS
D-15	362-6541	Net 10 Days

EXAMINED QUANTITIES

QTY. SHIPPED	QTY. ARRIVED	
1 T/L	77 drums 1 T/L	Waste Removed ASHLAND CHEMICALS Transportation

Passed

RECEIVED

Category 3 | Disp. No. 061124

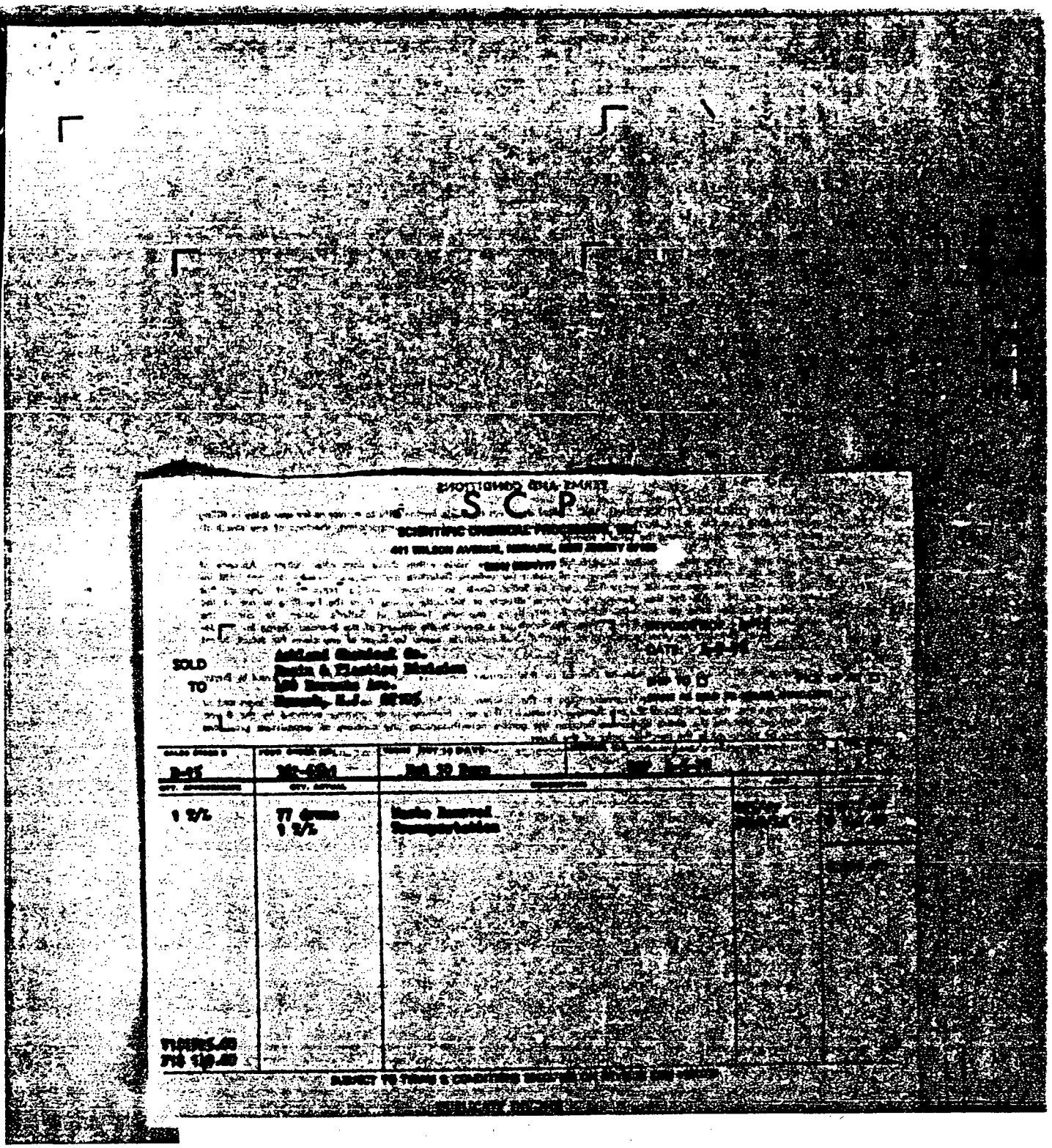
Bill

V181925.00
F18 110.00

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF

INVOICE

842600291



S C P

SOLD TO

842600292

3

VENDOR NO. | DUE DATE | COMPANY NUMBER

562112 Fulc. | 300

ACCOUNTS PAYABLE DISTRIBUTION

D028328

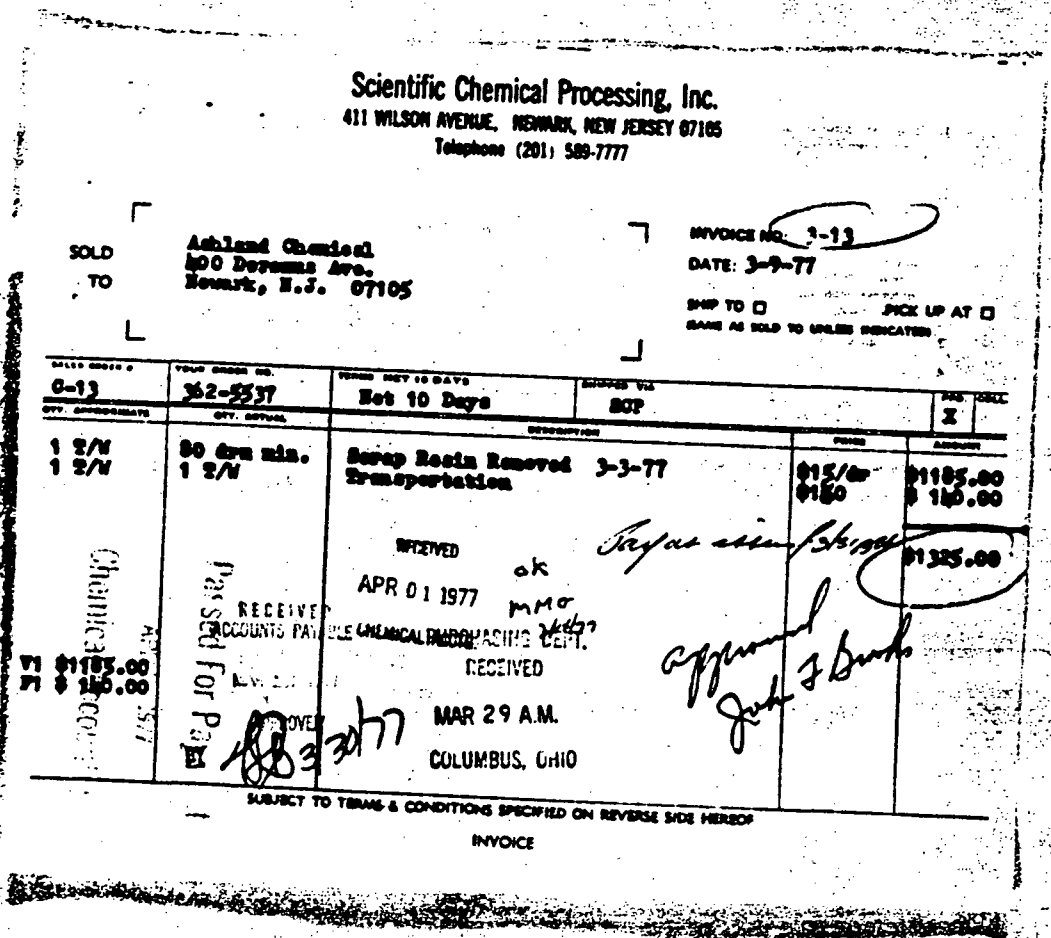
STATISTICAL	QUANTITY	RETAIL	PROFIT	ACCOUNT	SUFFIX	BID CODE	AMOUNT
03		00,750	362	5,102,377	226		1896

CHECKED BY

WK

ACCOUNT TOTAL

842600293



Scientific Chemical Processing, Inc.
411 WILSON AVENUE, NEWARK, NEW JERSEY 07105
Telephone (201) 589-7777

SOLD TO: Ashland Chemical
400 Doremus Ave.
Newark, N.J. 07105

INVOICE NO. 3-13
DATE: 3-9-77
SHIP TO ☐ PICK UP AT ☐
SAME AS SOLD TO UNLESS INDICATED

SALES ORDER #	YOUR ORDER NO.	TERMS NET 10 DAYS	SHIPPED VIA	PAID
0-13	362-5537	Net 10 Days	SCP	X

QTY. SHIPPED	QTY. ORDERED	DESCRIPTION	PRICE	AMOUNT
1 R/N	80 drm min.	Scrap Resin Removed 3-3-77	$15/drm	$1185.00
1 R/N	1 R/N	Transportation	$150	$ 150.00
				$1335.00

RECEIVED
APR 01 1977
ACCOUNTS PAYABLE CHEMICAL PROCESSING DEPT.

ok mmo

RECEIVED
MAR 29 A.M.
COLUMBUS, OHIO

Approved Jack J Burke

VI $1185.00
VI $ 150.00

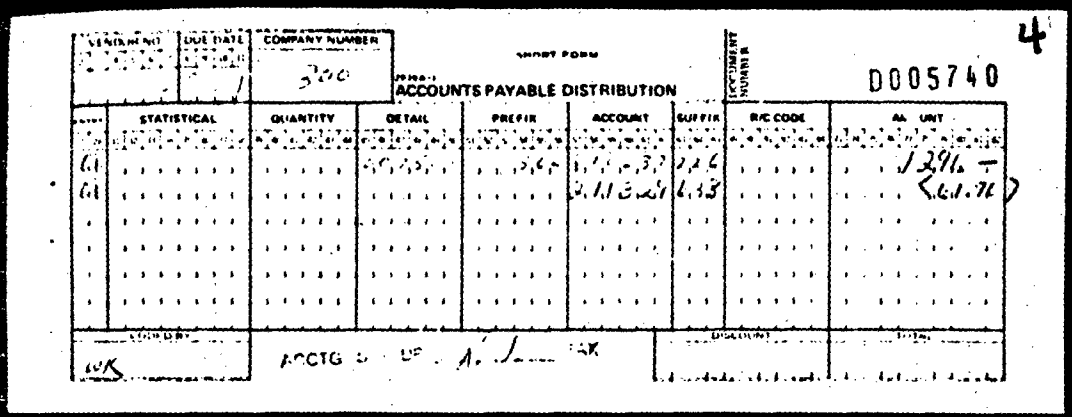
Ck Req For Payment

APPROVED 3/31/77

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF

INVOICE

842600294



VENDOR NO. | DUE DATE | COMPANY NUMBER 300

SHEET FORM

FORM 1 ACCOUNTS PAYABLE DISTRIBUTION

DOCUMENT NUMBER D005740

4

LINE	STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	R/C CODE	AMOUNT
01								1296 -
01								(61.72)

ENTERED BY: WK ACCTG: DP. A. J. SK DISCOUNT TOTAL

842600295

S C P

SCIENTIFIC CHEMICAL PROCESSING, INC.

[redacted]

411 WILSON AVENUE
NEWARK, NEW JERSEY 07105

INVOICE NO: 12-30

DATE: 12-16-76

SOLD TO: Ashland Chemical Co.
400 Doremus Ave.
Newark, N.J. 07105

Attn: Mr. Gary Boylan

SHIP TO ☐ PICK UP AT ☐
*SAME AS SOLD TO UNLESS INDICATED

SALES ORDER #	YOUR ORDER NO.	TERMS NET 10 DAYS	SHIPPED VIA	PPD.	COLL.
L-29	362-5537	Net 10 Days	Truck 12-14-76	X	

QTY. APPROXIMATE	QTY. ACTUAL	DESCRIPTION	PRICE	AMOUNT
88 drums	60 drums	Solid Scrap Material	$15/dr	$ 900.00
	10 drums	Liquid Waste Material	$10/dr	$ 100.00
	18 drums	Semi-Liquid Waste Material	$13/dr	$ 234.00
				$1234.00

EXAMINED CALCULATED AND APPROVED
JAN 20 1977 JAN 21 1977
ASHLAND CHEMICAL CHEMICAL ACCTG.

RECEIVED
JAN 17 1977

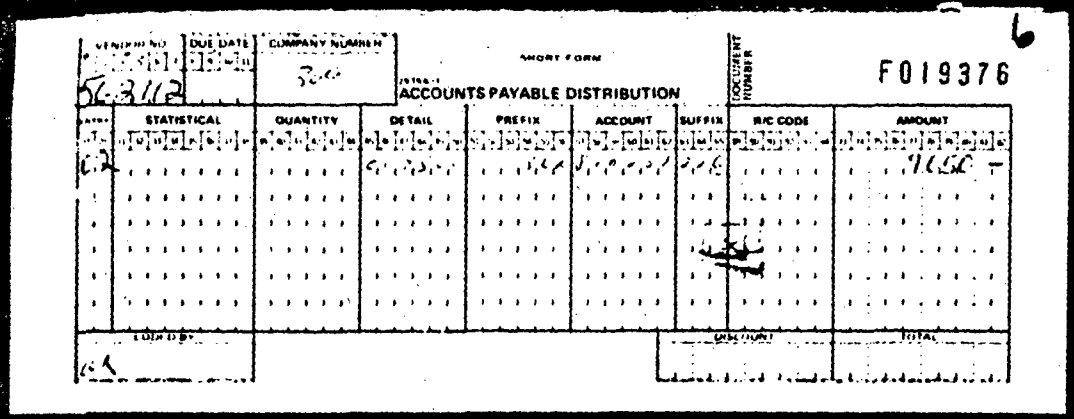
APPROVED BY

VI $1234.00

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF

INVOICE

842600296



VENDOR NO. 56-3112 | DUE DATE | COMPANY NUMBER 300

SHORT FORM

ACCOUNTS PAYABLE DISTRIBUTION

DOCUMENT NUMBER F019376

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	R/C CODE	AMOUNT
02		5[illegible]	5[illegible]	5[illegible]	2[illegible]		1650

LOADED BY

DISTRIBUTION TOTAL

842600297

Scientific Chemical Processing, Inc.

411 WILSON AVENUE, NEWARK, NEW JERSEY 07105
Telephone (201) 589-7777

SOLD TO: Ashland Chemical
400 Doremus Ave
Newark, N.J. 07105

INVOICE NO: 1-113
DATE: 2-4-77 as of 1-31-77

SHIP TO ☐ PICK UP AT ☐
(SAME AS SOLD TO UNLESS INDICATED)

SALES ORDER #	YOUR ORDER NO.	TERMS NET 10 DAYS	SHIPPED VIA	PPD COLL
M-111	362-5537	Net 10 Days	SCP	X

QTY. APPROXIMATE	QTY. ACTUAL	DESCRIPTION	PRICE	AMOUNT
6 T/L	88 Drums	Scrap Resin Removed 1-5-77	$15/dr	$ 1320.00
		Delay 12:30-2:15= 45 min	$15/hr	$ 11.25
	85 Dr x 55 gl	Scrap Resin Removed 1-6-77	$15/dr	$ 1275.00
	80x 5 gal	Scrap Resin Removed	$5/dr	$ 400.00
		Delay 8:45-10:15= ½ hr	$15/hr	$ 7.50
	80 Drums	Scrap Resin Removed 1-21-77	$15/dr	$ 1200.00
		Delay 10:30-3:05= 3½ hr	$15/hr	$ 52.50
	80 Drums	Scrap Resin Removed 1-26-77	$15/dr	$ 1200.00
		Delay 9:30-11:00= ½ hr	$15/hr	$ 7.50
	72 Drums x 55	Scrap Resin Removed 1-27-77	$15/dr	$ 1080.00
	80 x 5 gal	Scrap Resin Removed	$5/ea	$ 400.00
		Delay 8:45-1:45= 4 hrs	$15/hr	$ 60.00
	79 Drums	Scrap Resin Removed 1-31-77	$15/dr	$ 1185.00
		Delay 9:45-11:30= 45 min	$15/hr	$ 11.25
V1 $8060.00				$ 8210.00
F1 $150.00				$ 840.00
F1 $840.00	6 T/L	Transportation Charge	$140/ld	$ 9050.00

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF

INVOICE

842600298

Scientific Chemical Processing, Inc.

411 WILSON AVENUE, NEWARK, NEW JERSEY 07105
Telephone (201) 589-7777

SOLD TO: Ashland Chemical
400 Doremus Ave
Newark, N.J. 07105

INVOICE NO: 1-113
DATE: 2-4-77 as of 1-31-77

SHIP TO ☐ PICK UP AT ☐
(SAME AS SOLD TO UNLESS INDICATED)

SALES NO.	YOUR ORDER NO.	TERMS NET 10 DAYS	SHIPPED VIA	PPD	COLL
N-111	362-3337	Net 10 Days	SCP	X	

QTY APPROXIMATE	QTY ACTUAL	DESCRIPTION	PRICE	AMOUNT
6 T/L	88 Drums	Scrap Resin Removed 1-5-77	$15/dr	$ 1320.00
		Delay 12:30-2:15= 1¾ min	$15/hr	$ 11.25
	85 Dr x 55 gl	Scrap Resin Removed 1-6-77	$15/dr	$ 1275.00
	80x 5 gal	Scrap Resin Removed	$5/dr	$ 400.00
		Delay 8:45-10:15= 1½ hr	$15/hr	$ 7.50
	80 Drums	Scrap Resin Removed 1-21-77	$15/dr	$ 1200.00
		Delay 10:30-3:05= 3½ hr	$15/hr	$ 52.50
	80 Drums	Scrap Resin Removed 1-26-77	$15/dr	$ 1200.00
		Delay 9:30-11:00= 1½ hr	$15/hr	$ 7.50
	72 Drums x 55	Scrap Resin Removed 1-27-77	$15/dr	$ 1080.00
	80 x 5 gal	Scrap Resin Removed	$5/ea	$ 400.00
		Delay 8:45-1:45= 4 hrs	$15/hr	$ 60.00
	79 Drums	Scrap Resin Removed 1-31-77	$15/dr	$ 1185.00
		Delay 9:45-11:30= 1¾ min	$15/hr	$ 11.25
Fl $8060.00				
Fl $150.00				$ 8210.00
Fl $840.00	6 T/L	Transportation Charge	$140/14	$ 840.00
				$ 9050.00

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF

DUPLICATE INVOICE

842600299

2 0 7 9

9

VENDOR NO.	DUE DATE	COMPANY NUMBER
662112	0000	300

SHORT FORM

ACCOUNTS PAYABLE DISTRIBUTION

DOCUMENT B030242

STATISTICAL	QUANTITY	RETAIL	PREFIX	ACCOUNT	SUFFIX	A/C CODE	AMOUNT
23		00750	261	810307	230		1950

CODED BY	DISCOUNT	TOTAL
AK		

842600300

Scientific Chemical Processing, Inc.

411 WILSON AVENUE, NEWARK, NEW JERSEY 07105
Telephone (201) 589-7777

INVOICE NO: 2-52
DATE: 2-25-77

SOLD TO: Ashland Chemical
500 Doremus Avenue
Newark, N.J. 07105

SHIP TO ☐ PICK UP AT ☐
SAME AS SOLD TO UNLESS INDICATED

SALES ORDER #	YOUR ORDER NO.	TERMS NET 10 DAYS	SHIPPED VIA	PPD	COLL.
B-18	362-5537	Net 10 Days	SCP		X

QTY. APPROXIMATE	QTY. ACTUAL	DESCRIPTION	PRICE	AMOUNT
1 T/L	80 drums	Solid Residue Removed	$15/dr	$1200.00
1 T/L	1 T/L	Delay time 3:00-5:00- 1 hr/ Transportation charge	$15/hr $140	$ 15.00 $ 140.00
				$1355.00
V1 $1200.00 P1 $ 155.00				

RECEIVED
MAR 22 1977
CHEMICAL ACCTG.

RECEIVED
ACCOUNTS PAYABLE
MAR 8 1977

PURCHASING DEPT.
RECEIVED
MAR 1 4 P.M.
COLUMBUS, OHIO

APPROVED CALCULATIONS
DATE 2 1 1977
Accounting Supervisor

Chemical Accounting

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF

INVOICE

842600301

Scientific Chemical Processing, Inc.

411 WILSON AVENUE, NEWARK, NEW JERSEY 07105
Telephone (201) 589-7777

SOLD TO: Ashland Chemical
400 Doremus Avenue
Newark, N.J. 07105

INVOICE NO: 2-52
DATE: 2-25-77
SHIP TO ☐ PICK UP AT ☐
(SAME AS SOLD TO UNLESS INDICATED)

SALES ORDER #	YOUR ORDER NO.	TERMS NET 10 DAYS	SHIPPED VIA	PPD	COLL
B-48	362-5537	Net 10 Days	SCP	X	

QTY. APPROXIMATE	QTY. ACTUAL	DESCRIPTION	PRICE	AMOUNT
1 T/L	80 drums	Solid Residue Removed	$15/dr	$1200.00
		Delay time 3:00-5:00- 1 hr/	$15/hr	$ 15.00
1 T/L	1 T/L	Transportation charge	$140	$ 140.00
				$1355.00
T1 $1200.00				
T1 $ 155.00				

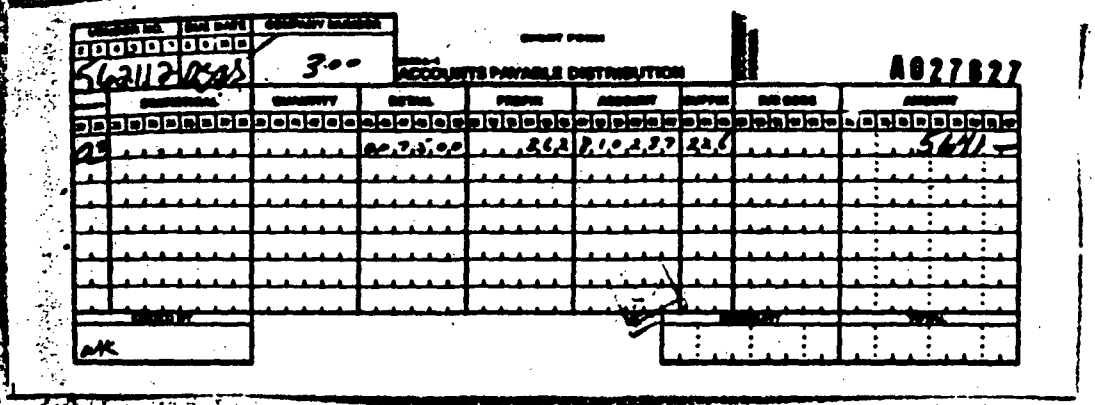
ok
hmg
3/1/77

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF

INVOICE

842600302

10



842600303

[redacted]

PLEASE PAY

Scientific Chemical Processing, Inc.
411 WILSON AVENUE, NEWARK, NEW JERSEY 07105
Telephone (201) 589-7777

SOLD TO: Ashland Chemical
400 Doremus Ave.
Newark, N.J. 07105

RECEIVED
MAR 22 P.M.
COLUMBUS, OHIO

INVOICE NO. 2-42
DATE: 2-28-77

SHIP TO ☐ PICK UP AT ☐
SAME AS SOLD TO UNLESS INDICATED

SALES ORDER #	YOUR ORDER NO.	TERMS NET 10 DAYS	SHIPPED VIA	DEL.	CALL
B-38	362-5537	Net 10 Days	SCP	X	

QTY. SHIPPED	QTY. ORDERED	DESCRIPTION	PRICE	AMOUNT
4 2/2	80 drums	Solid Misc. Residue Removed	$15/dr	$1200.00
		Delay time 9:30-11:30= 1 hr	$15/hr	$ 15.00
	91 drums	Solid Misc. Residue Removed	$15/dr	$1365.00
		Delay time 12:30-2:30= 1 hr	$15/hr	$ 15.00
	85 drums	Solid Misc. Residue Removed	$15/dr	$1275.00
		Delay time 9:15-11:00= 3/4 hr	$15/hr	$ 11.25
	80 drums	Solid Misc. Residue Removed	$15/dr	$1200.00
4 2/2		Transportation charge	$140/ea	$ 560.00
VI $5040.00				$5861.25
PI $ 601.25				

Passed For Payment
MAR 25 1977
Chemical Accounting

RECEIVED
ACCOUNTS PAYABLE
MAR 8 1977

EXAMINED CALCULATIONS
MAR 24 1977

OK

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF

ASHLAND CHEMICALS

[redacted]

842600304

13

VENDOR NO.	DUE DATE	COMPANY NUMBER
542117	060191	300

SHORT FORM

ACCOUNTS PAYABLE DISTRIBUTION

DOCUMENT NUMBER E033682

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	B/C CODE	AMOUNT
03		007500	362	8102331	226		280

CODED BY: WK

DISCOUNT

TOTAL

842600305

Scientific Chemical Processing, Inc.

411 WILSON AVENUE, NEWARK, NEW JERSEY 07105
Telephone (201) 589-7777

SOLD TO
Ashland Chemical
400 Doremus Ave
Newark, N.J. 07105

INVOICE NO. 2-111
DATE 3-7-77 as of 2-28-77
SHIP TO ☐ PICK UP AT ☐
(SAME AS SOLD TO UNLESS INDICATED)

SALES ORDER #	YOUR ORDER NO.	TERMS NET 10 DAYS	SHIPPED VIA	F.O.B. POINT
B-99	362-5537	Net 10 Days	SCP	X

QTY. APPROXIMATE	QTY. ACTUAL	DESCRIPTION	PRICE	AMOUNT
		Scheduled P/U on Friday Feb. 25, 1977		
		Our truck arrived in the A.M. and in the afternoon. Both times he was refused a load.		
		Pls charge your account		
	2 Trips	Transportation	$110/ea	$ 280.00
Fl $210.00				

RECEIVED MAR 31 1977 CHEMICAL ACCOUNTING

Received For Payment MAR 31 1977

PURCHASING DEPT. RECEIVED MAR 29 A.M. COLUMBUS, OHIO

Chemical Accounting

CALCULATIONS

APR 1 1977

CENTRAL CHEMICALS

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF

INVOICE

842600306

DATE:

SHIP TO

2-99	362-5537	Net 10 Days	SCP		X
		Schoduled P/U on Friday Feb. 25, 1977 Our truck arrived in the A.M. and in the afternoon. Both times he was refused a load. We charge your account Transportation ok to pay MHO			
	2 Trips			$110/ea	$ 280.00
Fl $210.00					

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF

INVOICE

842600307

14

VENDOR NO	DUE DATE	COMPANY NUMBER
562112	7/1/84	300

ACCOUNTS PAYABLE DISTRIBUTION

DOCUMENT NUMBER E033683

	STATISTICAL	QUANTITY	RETAIL	PREFIX	ACCOUNT	SUFFIX	A/C CODE	AMOUNT
03			90,750.00	362	810.237	226		3052.-

CODED BY: WK

DISCOUNT

TOTAL

842600308

0292

Scientific Chemical Processing, Inc.

411 WILSON AVENUE, NEWARK, NEW JERSEY 07105
Telephone (201) 589-7777

SOLD TO
Ashland Chemical Co.
400 Doremus Ave.
Newark, N.J. 07105

INVOICE NO: 2-110
DATE: 3-7-77 as of 2-28-77
SHIP TO ☐ PICK UP AT ☐
(SAME AS SOLD TO UNLESS INDICATED)

SALES ORDER #	YOUR ORDER NO.	TERMS NET 10 DAYS	SHIPPED VIA	PPD	COLL.
B-98	362-5537	Net 10 Days	SCP	X	

QTY APPROXIMATE	QTY. ACTUAL	DESCRIPTION	PRICE	AMOUNT
2 T/L	92 Drums 40 x 5 gal	Resin Scrap Removed 2-4-77 On 2 Pallets	$15/dr $5/ea	$ 1380.00 $ 200.00
	78 Drums	Resin Scrap Removed 2-23-77 Delay 2:30-5:00= 1½ hr	$15/dr $15/hr	$ 1170.00 $ 22.50
	RECEIVED MAR 31 1977 CHEMICAL ACCTG. ACCOUNTS PAYABLE	Transportation Charge EXAMINED CALCULATIONS PURCHASING DEPT. MAR 31 1977 RECEIVED MAR 29 A.M. COLUMBUS, OHIO	$110/ld	$ 280.00 $ 3052.50
V1 $2550.00 F1 $302.50 V1 $200.00	APPROVED BY	OK-RGD 3-25-77		

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF

INVOICE

842600309

TO

B-98	262-5537	Net 10 Days	SCP

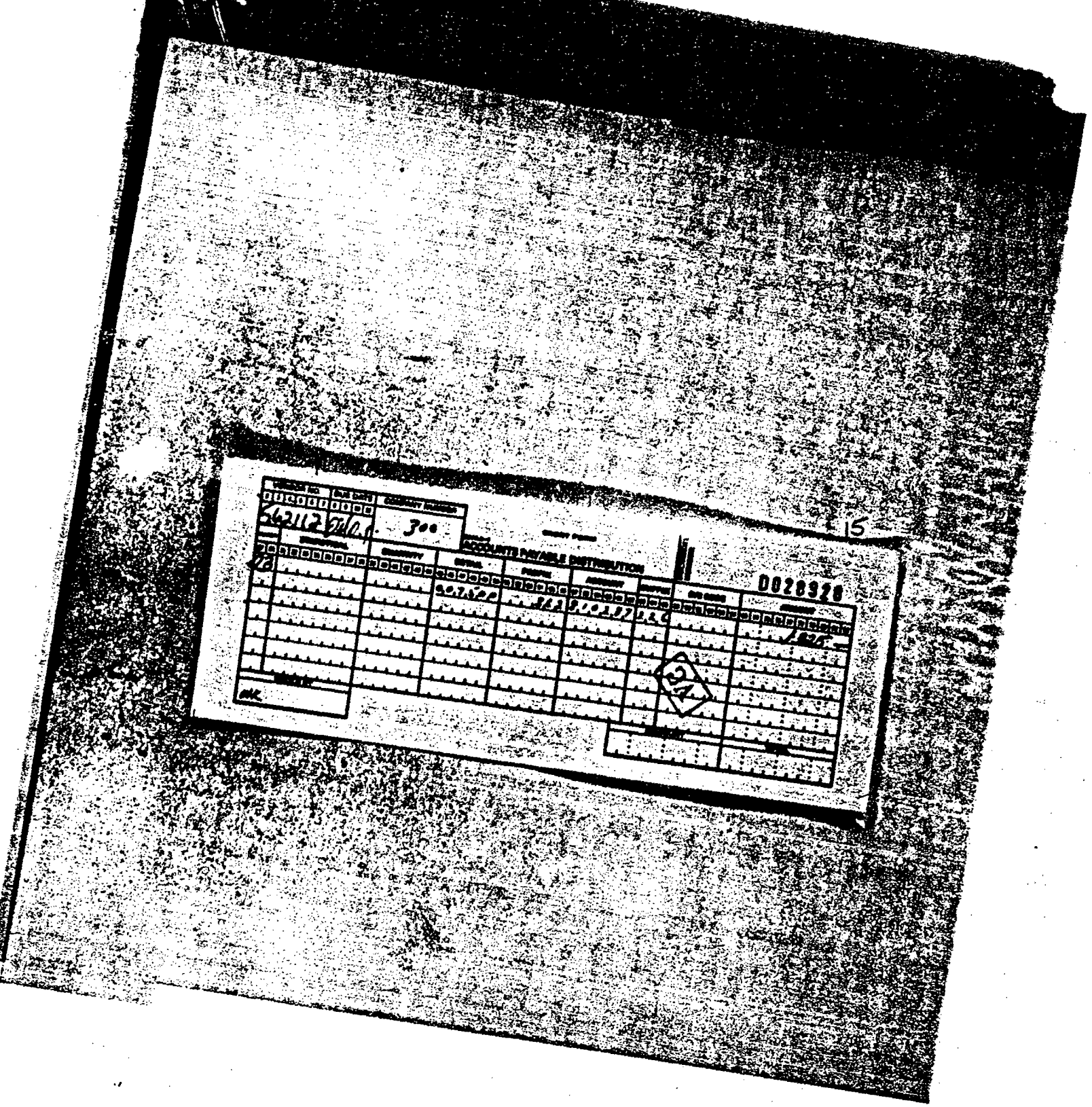
EST. APPROX. LBS.	QTY. ACTUAL	DESCRIPTION		
2 T/L	92 Drums 40 x 5 gal	Resin Scrap Removed 2-4-77 On 2 Pallets	/dr /ea	$ [illegible] $ [illegible]
	78 Drums	Resin Scrap Removed 2-23-77 Delay 2:30-5:00= 1½ hr	$15/dr $15/hr	$ 1170.00 $ 22.50
		Transportation Charge	$10/ld	$ 250.00
				$ 3052.50

Vl $2550.00
Fl $302.50
Vl $200.00

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF

INVOICE

842600310



842600311

Scientific Chemical Processing, Inc.
411 WILSON AVENUE, NEWARK, NEW JERSEY 07105
Telephone (201) 589-7777

SOLD TO: Ashland Chemical
490 Doremus Ave.
Newark, N.J. 07105

INVOICE NO. 3-13
DATE: 3-9-77

SHIP TO ☐ PICK UP AT ☐
SAME AS SOLD TO UNLESS INDICATED

SALES ORDER #	YOUR ORDER NO.	TERMS NET 10 DAYS	SHIPPED VIA	QTY. SHIPPED	QTY. BACK ORDERED	DESCRIPTION	PRICE	AMOUNT	TAX EXEMPT
6-13	362-9537	Net 10 Days	SCP						X
				1 S/N		Scrap Resin Removed 3-3-77	$15/hr	$105.00	
				1 S/N	1 S/N	transportation	$150	$ 150.00	
								$255.00	

RECEIVED
APR 01 1977
ACCOUNTS PAYABLE CHEMICAL PURCHASING DEPT.

ok mmo

Approved Jack J Burke

Chemical Account

Passed For Payment

RECEIVED
MAR 29 A.M.
COLUMBUS, OHIO

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF

INVOICE

842600312

3/14

Scientific Chemical Processing, Inc.

411 [illegible], [illegible], NEW JERSEY 07105
Telephone (201) 589-7777

INVOICE NO: 3-13
DATE: 3-9-77

SOLD TO
Ashland Chemical
100 Doremus Ave.
Newark, N.J. 07105

SHIP TO ☐ PICK UP AT ☐
(SAME AS SOLD TO UNLESS INDICATED)

C-13	362-5537	Net 10 Days	SOP	X

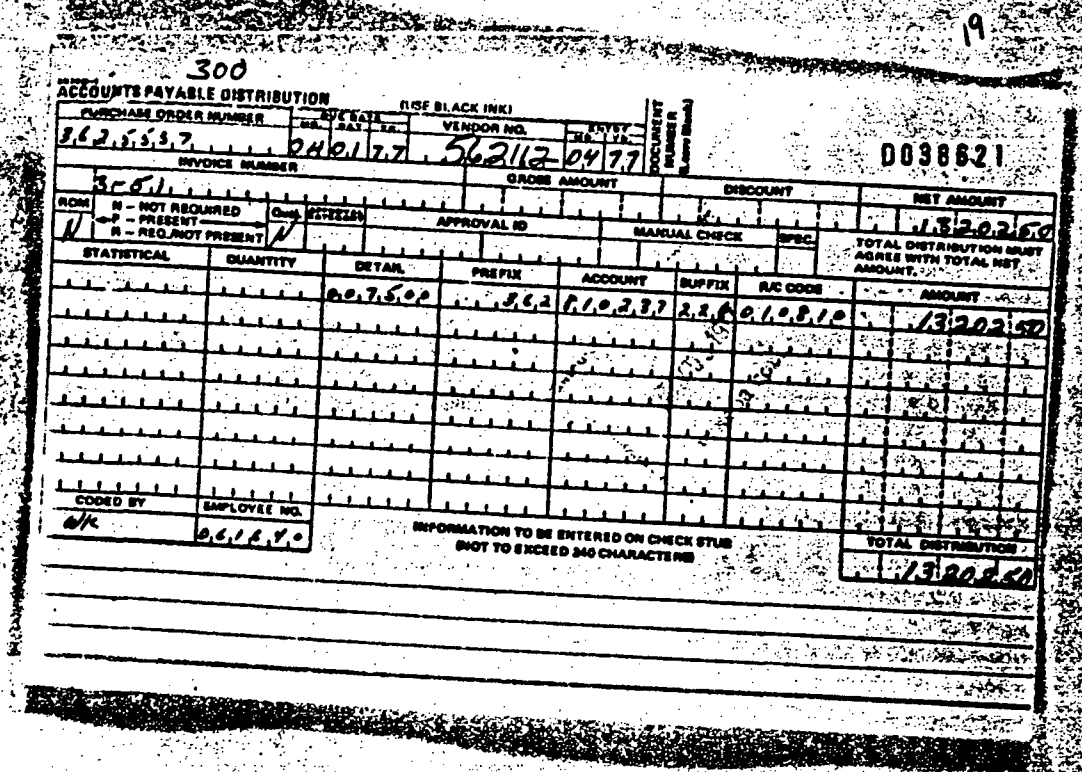
1 T/M	20 drm min.	Scrap Resin Removed 3-3-77	$15/dr	$1185.00
1 T/M	1 T/M	Transportation	$140	140.00
				$1325.00
1 $1185.00				
1 $ 140.00				

ok
mm
3/14/77

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF

INVOICE

842600313



300

19

ACCOUNTS PAYABLE DISTRIBUTION (USE BLACK INK)

PURCHASE ORDER NUMBER: 8,6,2,5,5,3,7 | DUE DATE: 04/01/77 | VENDOR NO.: 562112 | ENTRY DATE: 04/7/77 | DOCUMENT NUMBER: D038621

INVOICE NUMBER: 3-61

RCM	GROSS AMOUNT	DISCOUNT	NET AMOUNT
N			13,202.50

RCM: N – NOT REQUIRED, P – PRESENT, R – REQ.,NOT PRESENT | Check: N | APPROVAL ID | MANUAL CHECK | SPEC. | TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT.

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	R/C CODE	AMOUNT
		0,0,7,5,0,0	8,6,2	1,0,2,3,7	2,2,6	0,1,0,8,1,0	13,202.50

CODED BY: a/c | EMPLOYEE NO.: 0,6,1,6,7,0

INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)

TOTAL DISTRIBUTION: 13,202.50

842600314

Scientific Chemical Processing, Inc.

411 WILSON AVENUE, NEWARK, NEW JERSEY 07105
Telephone (201) 589-7777

Passed for Pay

PURCHASING DEPT. RECEIVED APR 22 A.M. COLUMBUS, OHIO

PURCHASING DEPT. RECEIVED APR 15 P.M.

MAY 02 197 COLUMBUS, OHIO

CHEMICAL ROUTE

SOLD TO: Ashland Chemical
1400 Doremus Ave.
Newark, N.J. 07105

INVOICE NO: 3-51
DATE: 3-21-77
SHIP TO ☐ PICK UP AT ☐
SAME AS SOLD TO UNLESS INDICATED

SALES ORDER #	YOUR ORDER NO.	TERMS NET TO EXCTR	SHIPPED VIA	PRD. CALL
C-51	362-5537	Net 10 Days	SCP	X

QTY. APPROXIMATE	QTY. ACTUAL	DESCRIPTION	PRICE	AMOUNT
6 T/L	75 drums -	Scrap Resin Removed 3-3-77	$15/dr	$1125.00
	80 drums -	Delay time 1:30-4:00- 1½ hrs	$15/hr	$ 22.50
	88 drums -	Scrap Resin Removed 3-4-77	$15/dr	$1200.00
	42 drums -	Scrap Resin Removed 3-7-77	$25/dr	$2200.00
	516 Pails -	Delay time 1:45-4:15- 1½ hrs	$15/hr	$ [illegible]
	[illegible] drums	Scrap Resin Removed 3-9-77	$25/dr	$1050.00
	[illegible]	Scrap Resin Removed 3-9-77	$5/ea	$2730.00
	[illegible]	Delay time 9:00-2:30- 4½ hrs	$15/hr	$ [illegible]
	[illegible]	Scrap Resin Removed 3-10-77	$25/dr	$1975.00
	[illegible]	Delay time 10:30-2:30- 3 hrs	$15/hr	$ [illegible]
	[illegible]	Scrap Resin Removed 3-14-77	$25/dr	$2000.00
	[illegible]	Delay time 8:30-10:30- 1 hr	$15/hr	$ [illegible]
	[illegible]	Transportation	$140/ea	$ 840.00

EXAMINED CALCULATIONS MAY 2 1977 ASHLAND CHEMICALS

RECEIVED ACCOUNTS PAYABLE APR 21 1977

T1 $12280.00
F1 $ 1012.50

6/7/77

BY: [signature]

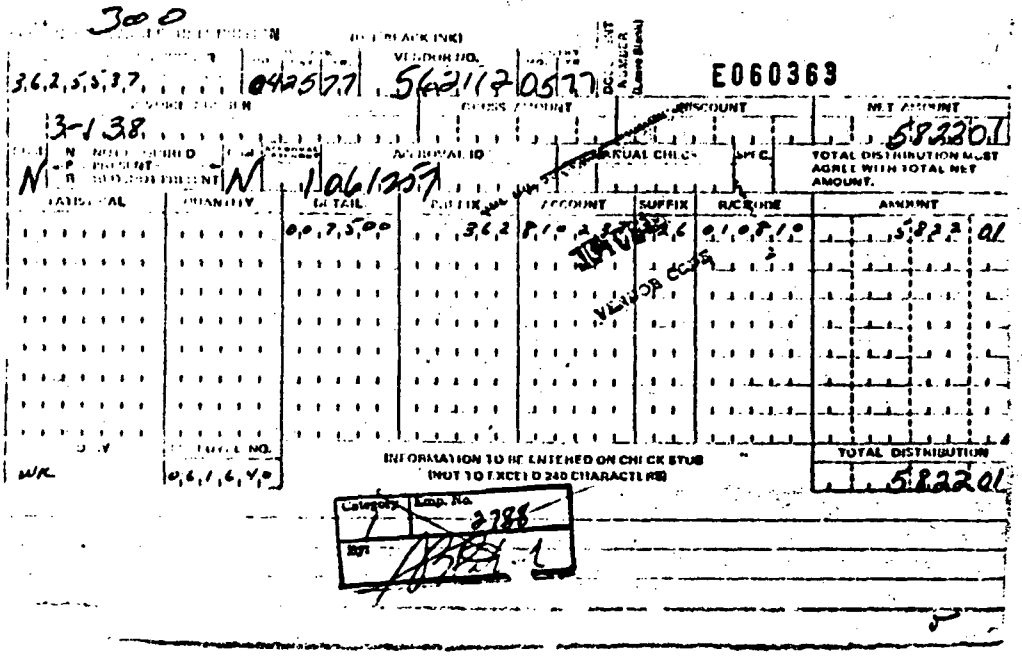
SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF

INVOICE

Pay [illegible]

842600315

21



842600316

Scientific Chemical Processing, Inc.

411 WILSON AVENUE, NEWARK, NEW JERSEY 07105
Telephone (201) 589-7777

PLEASE PAY ON THIS INVOICE

SOLD TO: Ashland Chemical
[illegible] Doremus Ave
Newark, N.J. 07105

INVOICE NO: 3-138

DATE: 4-15-77 as of 3-31-77

SHIP TO ☐ PICK UP AT ☐
RECEIVED (SAME AS SOLD TO UNLESS INDICATED)

JUNE 1977

0-135	362-5537	Net 10 Days	CHEMICAL ACCTG.		X
QTY APPROXIMATE	QTY ACTUAL	DESCRIPTION	PURCHASING DEPT.	PRICE	AMOUNT
3 T/	71 Drums	Misc. Resin Removed 3-17-77	RECEIVED	$25/dr	$ 1850.00
	82 Drums	Misc. Resin Removed 3-22-77	MAY 26 A.M.	$25/dr	$ 2050.00
	73 Drums	Misc. Resin Removed 3-30-77	COLUMBUS, OHIO	$25/dr	$ 1825.00
	3 T/L	Transportation	EXAMINED CALCULATIONS	$110/ld	$ 120.00
					$ 6115.00
VI $5725.00 FI $120.00		RECEIVED Less private Solvent for Disposal 1977 ACCOUNTS PAYABLE 4,969 gallons @ ASHLAND CHEMICALS			- 302.99
		APR 28 1977			$5812.01

Category | Acct. No. 3788 | Run

approved

Category | Acct. No. 6022-77 | Run

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE

INVOICE

842600317

23

-60

ACCOUNTS PAYABLE DISTRIBUTION (USE BLACK INK)

INVOICE NUMBER	VENDOR NO.	DOCUMENT NUMBER (Leave Blank)
3,6,2,5,5,3,7	0509127 5627120577	E060365

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT	NET AMOUNT
4-6-1			21400

1099	Dual	APPROVAL ID	MANUAL CHECK	SP# C.	TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT.
N	N	1061263			

N – NOT REQUIRED
P – PRESENT
R – REQ./NOT PRESENT

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	R/C CODE	AMOUNT
		0,0,3,5,0,0	3,6,2	8,1,0,2,9,7	2,2,6	0,1,0,8,1,0	21400

JOB CODE

CODED BY	EMPLOYEE NO.	INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)	TOTAL DISTRIBUTION
WK	0,6,1,6,4,0		21400

842600318

Scientific Chemical Processing, Inc.

411 WILSON AVENUE, NEWARK, NEW JERSEY 07105
Telephone (201) 589-7777

Passed For Payment

PLEASE PAY THIS INVOICE

SOLD TO: Ashland Chemical
1400 Doremus Ave
Newark, N.J. 07105

INVOICE NO: 4-61
DATE: 4-29-77
SHIP TO ☐ PICK UP AT ☐
(SAME AS SOLD TO UNLESS INDICATED)

CUST. ORDER NO.	YOUR ORDER NO.	TERMS: NET 10 DAYS	SHIPPED VIA		PPD	COLL.
D-61	362 5537	Net 10 Days	SCP	4-28-77	X	

QTY. APPROXIMATE	QTY. ACTUAL	DESCRIPTION	PRICE	AMOUNT
1 T/L	80 Drums	Misc. Residue Removed	$25/dr	$ 2000.00
		Transportation	$110.00	$ 110.00
				$ 2110.00

PURCHASING DEPT.
RECEIVED
MAY 26 A.M.
COLUMBUS, OHIO

RECEIVED
ACCOUNTS PAYABLE
MAY 25 1977
APPROVED BY

RECEIVED
JUN 01 1977
CHEMICAL ACCTG.
EXAMINED CALCULATIONS

RECEIVED
JUN 1 1977

ASHLAND CHEMICAL
Category 1 Purch. No. 61263
By: RG Denka

RECEIVED
ACCOUNTS PAYABLE
MAY 25 1977
APPROVED

Fl $2000.00
Fl $110.00

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF

INVOICE

842600319

24

300

ACCOUNTS PAYABLE DISTRIBUTION (USE BLACK INK)

E060360

PURCHASE ORDER NUMBER	MO.	DAY	FR.	VENDOR NO.	MO.	DAY	DOCUMENT NUMBER (Leave Blank)
3,6,2,5,3,7	05	16	27	56311205	77		

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT	NET AMOUNT
85-103			2255.00

ITEM	N - NOT REQUIRED P - PRESENT R - REQ. NOT PRESENT	Quan.	APPROVED	APPROVAL ID	MANUAL CHECK	SPEC.	TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT.
	N			106263			

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	R/C CODE	AMOUNT
		00350	362	810287	226	01081	2255.00

CODED BY	EMPLOYEE NO.	INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)	TOTAL DISTRIBUTION
WC	05165		2255.00

842600320

Scientific Chemical Processing, Inc.

411 WILSON AVENUE, NEWARK, NEW JERSEY 07105
Telephone (201) 589-7777

INVOICE NO: 4-103

DATE: 5-6-77 as of 4-30-77

SOLD TO: Ashland Chemical, 400 Doremus Ave, Newark, N.J. 07105

SHIP TO ☐ , PICK UP AT ☐ (SAME AS SOLD TO UNLESS INDICATED)

Passed For Payment

RECEIVED JUN 03 1977 Chemical Accounting

SALES ROUTE #	YOUR ORDER NO.	TERMS NET 10 DAYS	SHIPPED VIA		FOB	COLL
D-102	362-5537	Net 10 Days	SCP	4-1-77		Σ

QTY APPROXIMATE	QTY ACTUAL	DESCRIPTION	PRICE	AMOUNT
1 T/L	75 Drums 2 Pallets 24 x 5 gl	Solid Misc. Waste Removal Pails for Disposal Transportation	$25/dr $5/pail $110.00	$ 1875.00 $ 210.00 $ 110.00
				$ 2255.00

EXAMINED CALCULATIONS

RECEIVED ACCOUNTS PAYABLE MAY 13 1977

APPROVED BY

5-6-77

RECEIVED ACCOUNTS PAYABLE MAY 19 1977

APPROVED BY

ok To Pay

PURCHASING DEPT. RECEIVED MAY 26 A.M. COLUMBUS, OHIO

61124

Category 1 Exp. No. 61263

By R.G. Decker

V1 $2115.00
F1 $110.00

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF

INVOICE

842600321

25

300

ACCOUNTS PAYABLE DISTRIBUTION - USE BLACK (INK)

PURCHASE ORDER NUMBER	MO.	DAY	VENDOR NO.	CO.	VEN.	DOCUMENT NUMBER (Leave Blank)
3,6,2,5,5,3,7	05	08	5,6,2,1,2,0,5,1,7,7			D052375

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT	NET AMOUNT
H-41			6210.00

HOM: N – NOT REQUIRED; P – PRESENT; R – REQ./NOT PRESENT

HOM	Over $5000	APPROVAL ID	MANUAL CHECK	SPEC	TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT.
N	N	10/6/25			

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	R/C CODE	AMOUNT
		00,7,6,0,0	3,6,3	6,1,0,2,3,7	2,2,6	9,1,0,8,1,6	6210.00

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CODED BY	EMPLOYEE NO.	TOTAL DISTRIBUTION
mk	0,6,1,6,7,0	6210.00

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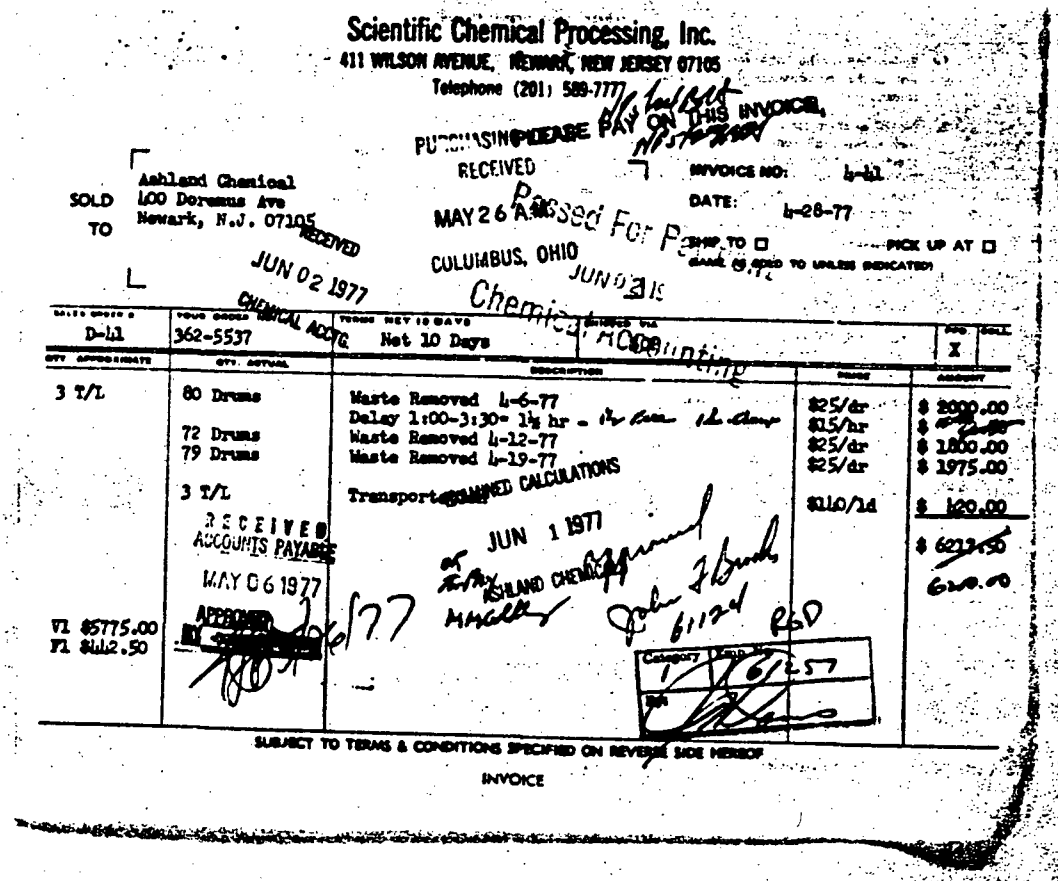

Scientific Chemical Processing, Inc.
411 WILSON AVENUE, NEWARK, NEW JERSEY 07105
Telephone (201) 589-7777

PURCHASING PLEASE PAY ON THIS INVOICE, NOT STATEMENT

RECEIVED
MAY 26 1977
COLUMBUS, OHIO

INVOICE NO: 4-41
DATE: 4-28-77

SOLD TO: Ashland Chemical
100 Doremus Ave
Newark, N.J. 07105

RECEIVED
JUN 02 1977
CHEMICAL ACCTG.

SHIP TO ☐ PICK UP AT ☐
(BILL TO SHIP TO UNLESS INDICATED)

Passed For Payment
JUN 02 1977
Chemical Accounting

SALES ORDER #	YOUR ORDER NO.	TERMS NET IS DAYS	SHIPPED VIA	PAID	SOLD
D-41	362-5537	Net 10 Days		X	

QTY. APPROXIMATE	QTY. ACTUAL	DESCRIPTION	PRICE	AMOUNT
3 T/L	80 Drums	Waste Removed 4-6-77	$25/dr	$ 2000.00
		Delay 1:00-3:30= 1½ hr - ~~1hr free 1hr charge~~	$15/hr	$ ~~22.50~~
	72 Drums	Waste Removed 4-12-77	$25/dr	$ 1800.00
	79 Drums	Waste Removed 4-19-77	$25/dr	$ 1975.00
	3 T/L	Transport ~~GUARANTEED~~ CALCULATIONS	$110/Td	$ 420.00
				$ 6217.50
				620.00
VI $5775.00				
FI $442.50				

RECEIVED
ACCOUNTS PAYABLE
MAY 06 1977

JUN 1 1977
ASHLAND CHEMICAL

APPROVED
[illegible] 6/1/77

Category 1 Date 6/2/77
Init [illegible]

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF

INVOICE

842600323

5/25
F

Scientific Chemical Processing, Inc.
411 WILSON AVENUE, NEWARK, NEW JERSEY 07105
Telephone (201) 589-7777

SOLD TO
Ashland Chemical
400 Doremus Ave
Newark, N.J. 07105

INVOICE NO.: 4-41
DATE: 4-28-77
SHIP TO ☐ PICK UP AT ☐
SAME AS SOLD TO UNLESS INDICATED

SALES ORDER #	YOUR ORDER NO.	TERMS NET 10 DAYS	SHIPPED VIA	F.O.B.	CODE
D-41	362-5537	Net 10 Days	SCP		X

QTY. SHIPPED	QTY. ORDERED	DESCRIPTION	PRICE	AMOUNT
3 T/L	80 Drums	Waste Removed 4-6-77	$25/dr	$ 2000.00
		Delay 1:00-3:30= 2½ hr - 1½ time 1 hr clear	$15/hr	$ 37.50
	72 Drums	Waste Removed 4-12-77	$25/dr	$ 1800.00
	79 Drums	Waste Removed 4-19-77	$25/dr	$ 1975.00
	3 T/L	Transportation	$110/ld	$ 420.00
				$ 6232.50
				6232.50

of Tony
MMcCall

VI $5775.00
FI $442.50

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF

INVOICE

842600324

4.0 Soil Quality Investigation Summary

4.1 Scope and Methodology

In accordance with the directives of the NJDEP, a soil quality investigation was completed to delineate the extent of vadose zone soil impact. The scope of the investigation was consistent with guidelines contained in the NJDEP *Technical Requirements For Site Remediation* (N.J.A.C. 7:26E) and the NJDEP approved variance for the performance as specified in NJDEP correspondence dated 23 June 1994 and confirmed in ACC correspondence dated 30 June 1994.

Between 29 August and 15 September 1994 a total of 250 soil borings were completed at the site. The soil borings were completed to characterize soil quality and delineate the distribution of organics in soils in each of 37 identified Areas of Concern (AOCs). The identification of the AOCs was conducted in accordance with NJDEP *Technical Requirements For Site Remediation* (N.J.A.C. 7:26E). **Figure 7** illustrates the generalized extent of the identified AOCs. To simplify the presentation and discussion of the soil quality investigation results, groups of contiguous or otherwise related AOCs have been assembled.

The soil quality investigation was conducted using guidelines contained in the NJDEP *Technical Requirements For Site Remediation* (N.J.A.C. 7:26E), the NJDEP *Field Sampling Procedures Manual* (May 1992, 2nd printing), and the NJDEP approved variance. Completion of each soil boring and the collection of soil samples were conducted using the following methodology:

- Soil borings were advanced to water table depth using a Geoprobe™ sampling system. Soil samples were collected using core barrel samplers equipped with disposable Teflon® liners.
- Soil samples were field screened for the presence of volatile organics (VO) using an 11.7 eV photoionization detector (PID) or flame ionization detector (FID). The PID was calibrated prior to use using a certified 100 parts per million (ppm) isobutylene standard. The FID was calibrated prior to use using a certified 100 ppm methane standard.
- The 6-inch depth interval which exhibited the highest field screening result was selected for laboratory analysis and transferred directly to laboratory bottleware. In the event of inconclusive field screening results, the 6-inch depth interval at or above the water table was selected for laboratory analysis.
- All samples for laboratory analysis were labelled, preserved by packing with ice, and shipped under chain-of-custody to GTEL Environmental Laboratories, Inc. (GTEL), Milford, New Hampshire.
- All soil samples were analyzed for total petroleum hydrocarbons (TPH) by USEPA Method 418.1. Upon receipt and review of the TPH data, samples were selected for additional laboratory analyses.

- Soil samples which exhibited concentrations of TPH exceeding 10,000 milligrams per kilogram (mg/Kg) are understood to require remediation and, therefore, did not require additional laboratory analysis.

- A minimum of 25% of soil samples that exhibited TPH concentrations exceeding 100 mg/Kg, but less than 10,000 mg/Kg, were also analyzed for base neutral semi-volatile organics plus a forward library search (BN+15) by USEPA Method 8270.

- A minimum of 25% of soil samples that exhibited TPH concentrations exceeding 1,000 mg/Kg, but less than 10,000 mg/Kg, were also analyzed for VOC plus a forward library search (VO+10) by USEPA Method 8240.

- One field rinsate blank sample was collected per day of sampling and analyzed for VO+10 by USEPA Method 8240 only.

- All analytical data were generated in accordance with the NJDEP *Reduced Deliverables* reporting format.

4.2 Soil Quality Investigation Results

To simplify the evaluation and presentation of the soil quality investigation results, groups of contiguous or otherwise related AOCs have been assembled. A summary of the soil sample quantities, analytical results, and proposed actions for each AOC are presented in the following sections.

The soil quality investigation results include the results of the August/September 1994 investigation and the results of previous soil sampling events (pre-1994) conducted by TMGI and GTI. Where appropriate, the pre-1994 soil data were included in the evaluation of soil quality data relating to a particular AOC.

Sample identifiers were used in the August/September 1994 investigation that identify from which AOC the sample was collected. For example sample "1-3" refers to the third sample location pertaining to AOC-1. In addition, some soil borings were completed in locations that were applicable to more than one AOC. These combination samples were identified by a combination identifier such as "3-3/4-1," indicating a sample pertaining to both AOC-3 and AOC-4. In such instances, the results for these samples are presented for each AOC.

The soil quality results have been evaluated and discussed primarily with regard to the NJDEP approved remediation criteria for the site, which is 10,000 mg/Kg total organic contaminants (TOC). Remediation of all vadose zone soils exceeding 10,000 mg/Kg total organics contaminants has been required by the NJDEP. A summary of TOC results and proposed actions for each AOC/AOC group is presented. The concentration of TOC is defined as the sum of all NJDEP approved organics analyses conducted on a given sample. For this investigation, TOC is the sum of the TPH, VOC, and BN analytical results.

Secondarily, the VO+10 and BN+15 data have been compared to the NJDEP's most current soil cleanup criteria which is published and updated in the NJDEP *Site Remediation News*. The analytical

data tables for each AOC present this comparison. The purpose of this secondary evaluation is to meet the requirements of a Declaration of Environmental Restriction which will be prepared for the site for approval by the NJDEP.

Attachment E contains an abbreviated copy of the groundwater analytical data reports. A complete copy of the groundwater data reports, in accordance with the NJDEP Regulatory *Reduced Deliverables* format, is enclosed with this report.

4.2.1 AOC-1, AOC-2, AOC-6

AOCs 1, 2, and 6 are located in the portion of the site west of the New Jersey Turnpike and consist of former rail car loading, spill collection, and AST areas. A total of 24 samples were collected at this AOC group during the August/September 1994 investigation. An additional 10 soil samples were collected at this AOC group by GTI and/or TMGI prior to 1994. The results of these pre-1994 soil samples were reported previously to the NJDEP. **Attachment F** summarizes the pre-1994 soil sample results. **Figure 8** shows the soil sample locations and **Figure 9** presents the TOC concentrations by sample location for this AOC group.

4.2.1.1 AOC-1: Track #1 Rail Car Loading Area

AOC-1, located on the southwestern portion of the property and labeled track #1, was a railroad truck car transfer area. Former activities included the transfer of incoming bulk shipments by above ground hoses and pumps from railroad tank cars to storage tanks within the various above ground tank farms.

One soil sample per 30 linear feet of railroad track was collected for a total of 5 samples. All samples were analyzed for TPH by USEPA Method 418.1.

Figure 9 presents the soil sample locations, sample depths, and the soil sample analytical results. The following table summarizes the distribution of TPH results and samples that required additional analysis.

The following table summarizes the distribution of TPH results and samples that required additional analysis.

AOC-1				
Total Samples	TPH > = 10,000 mg/Kg	TPH < 10,000 mg/Kg TPH > = 100 mg/Kg	TPH < 10,000 mg/Kg TPH > = 1,000 mg/Kg	TPH < 100 mg/Kg
5	4	1	1	0
BN+15 USEPA 8270	—	1	—	—
VO+10 USEPA 8240	—	—	1	—

Table 6 summarizes the TPH, total VOC, and total BN, and TOC concentrations and **Table 7** presents the specific VOC and BN results for samples collected at this AOC.

4.2.1.2 AOC-2: AST Area #1, Loading Rack Collection Sump, Rail Car Drip Pan Collection

AOC-2, located on the western portion of the property north of AOC-1, consists of 17 former above ground storage tanks (numbers 201 through 214, 216, 217, 218), a loading rack collection sump, and a rail car drip pan collection sump.

A total of 18 samples were collected at various locations throughout the AOC. These samples were also were used to assess soil quality at the collection sump locations. All 18 samples were analyzed for TPH by USEPA Method 418.1.

Figure 9 presents the soil sample locations, sample depths, and the soil sample analytical results. The following table summarizes the distribution of TPH results and samples that required additional analysis.

AOC-2				
Total Samples	TPH > = 10,000 mg/Kg	TPH < 10,000 mg/Kg TPH > = 100 mg/Kg	TPH < 10,000 mg/Kg TPH > = 1,000 mg/Kg	TPH < 100 mg/Kg
18	6	11	7	1
BN + 15 USEPA 8270	—	3	—	—
VO + 10 USEPA 8240	—	—	2	—

Table 8 presents the TPH, total VOC, and total BN, and TOC concentrations and **Table 9** presents the specific VOC and BN results for samples collected at this AOC.

4.2.1.3 AOC-6: West Truck Loading Rack Collection Sump

AOC-6, located near the southeast corner of AOC-3, was a recovered product collection sump which collected spillage piped from the tank truck transfer area and the solvent drumming room in the western plant.

One soil sample was collected at the location and analyzed for TPH by USEPA Method 418.1.

Figure 9 presents the soil sample location, sample depth, and the soil sample analytical results. The following table summarizes the distribution of TPH results and samples that required additional analysis.

AOC-6				
Total Samples	TPH > = 10,000 mg/Kg	TPH < 10,000 mg/Kg TPH > = 100 mg/Kg	TPH < 10,000 mg/Kg TPH > = 1,000 mg/Kg	TPH < 100 mg/Kg
1	0	1	1	0
BN + 15 USEPA 8270	—	1	—	—
VO + 10 USEPA 8240	—	—	1	—

Table 10 summarizes the TPH, total VOC, total BN, and TOC concentrations and **Table 11** presents the specific VOC and BN results for samples collected at this AOC.

4.2.1.4 Results Summary

As indicated on **Figure 9** of the 34 samples collected at this AOC group, a total of 10 samples exceeded 10,000 mg/Kg TOC.

AOC-1

Four samples pertaining to AOC-1 exceeded 10,000 mg/Kg TOC. Horizontal delineation of TOC north and east of AOC-1 has been completed as indicated by the relatively low TOC concentrations at location SB-7. AOC-2 is located north and is contiguous to AOC-1. Horizontal delineation to the south and west is precluded by the existing railroad spur. Vertical delineation of TOC is precluded by shallow water table depth (~2 feet) in this area.

AOC-2

Six samples pertaining to AOC-2 exceeded 10,000 mg/Kg TOC. Horizontal delineation of TOC west, north, and east has been completed as indicated by the relatively low TOC concentrations at peripheral soil sample locations in each of these directions. AOC-1 is located south and is contiguous to AOC-2. Vertical delineation of TOC is precluded by shallow water table depth (~2 feet) in this area.

AOC-6

Neither of the two samples pertaining to AOC-6 (SB-6 and 6-1) exceeded 10,000 mg/Kg. Therefore, no further investigation or remediation activities are proposed for this AOC.

4.2.1.5 Proposed Actions

Remediation of soils exceeding 10,000 mg/Kg in AOC-1 and AOC-2 is to be conducted. Development of a Soils Remedial Action Workplan is discussed in Section 5.0 of this report.

No samples pertaining to AOC-6 exceeded 10,000 mg/Kg. Therefore, no remedial action is proposed for AOC-6.

4.2.2 AOC-3, AOC-4, AOC-5

AOCs 3, 4, and 5 are located in the portion of the site northwest of the New Jersey Turnpike and consist of a former, concrete-lined, tank truck transfer area, a former, indoor drummed product storage area and product drum room, and an oil/water separator and sump pump. A total of 16 samples were collected at this AOC group during the August/September 1994 investigation. An additional five soil samples were collected at this AOC group by GTI and/or TMGI prior to 1994. The results of these pre-1994 soil samples were reported previously to the NJDEP. **Attachment F** summarizes the pre-1994 soil sample results. **Figure 10** shows the soil sample locations and **Figure 11** presents the TOC concentrations by sample location for this AOC group.

4.2.2.1 AOC-3: West Truck Loading Rack

AOC-3, located on the north side of AOC-2, was a former, concrete-lined, tank truck transfer area for chemicals, fuel oil, and diesel fuel. Transfers were accomplished by hoses and pumps which were connected to fixed above ground piping for transfer of the material to various tanks.

A total of five soil samples were collected along the perimeter of this area at approximate 30 foot intervals. All five samples were analyzed for TPH by USEPA Method 418.1.

Figure 11 presents the soil sample locations, sample depths, and the soil sample analytical results. The following table summarizes the distribution of TPH results and samples that required additional analysis.

AOC-3				
Total Samples	TPH >=10,000 mg/Kg	TPH <10,000 mg/Kg TPH >=100 mg/Kg	TPH <10,000 mg/Kg TPH >=1,000 mg/Kg	TPH <100 mg/Kg
5	0	5	3	0
BN+15 USEPA 8270	—	2	—	—
VO+10 USEPA 8240	—	—	1	—

Table 12 summarizes the TPH, total VOC, total BN, and TOC concentrations and **Table 13** presents the specific VOC and BN results for samples collected at this AOC.

4.2.2.2 AOC-4: West Product Storage Building, Drum Room

AOC-4, located north of AOC-3, was a former indoor drummed product storage area and product drum room. Both areas were underlain by an impermeable concrete floor slab and contained drummed solvents, acids, and caustics.

A total of 11 soil samples were collected around the perimeter of the area at approximate 30 foot intervals. All 11 samples were analyzed for TPH by USEPA Method 418.1.

Figure 11 presents the soil sample locations, sample depths, and the soil sample analytical results. The following table summarizes the distribution of TPH results and samples that required additional analysis.

AOC-4				
Total Samples	TPH > = 10,000 mg/Kg	TPH < 10,000 mg/Kg TPH > = 100 mg/Kg	TPH < 10,000 mg/Kg TPH > = 1,000 mg/Kg	TPH < 100 mg/Kg
11	2	8	3	1
BN + 15 USEPA 8270	—	3	—	—
VO + 10 USEPA 8240	—	—	2	—

Table 14 summarizes the TPH, total VOC, total BN, and TOC concentrations and **Table 15** presents the specific VOC and BN results for samples collected at this AOC.

4.2.2.3 AOC-5: West Oil/Water Separator

AOC-5, located near the southwest corner of AOC-3, was an oil/water separator and sump pump.

One soil sample was collected at the location and analyzed for TPH by USEPA Method 418.1.

Figure 11 presents the soil sample location, sample depth, and the soil sample analytical results. The following table summarizes the distribution of TPH results and samples that required additional analysis.

AOC-5				
Total Samples	TPH > = 10,000 mg/Kg	TPH < 10,000 mg/Kg TPH > = 100 mg/Kg	TPH < 10,000 mg/Kg TPH > = 1,000 mg/Kg	TPH < 100 mg/Kg
1	0	1	1	0
BN + 15 USEPA 8270	—	1	—	—
VO + 10 USEPA 8240	—	—	1	—

Table 16 summarizes the TPH, total VOC, total BN, and TOC concentrations and **Table 17** presents the specific VOC and BN results for samples collected at this AOC.

4.2.2.4 Results

As indicated on **Figure 11**, of the 21 soil samples collected at this AOC group, a total of two samples exceeded 10,000 mg/Kg of TOC.

AOC-3

None of the samples pertaining to this AOC exceeded 10,000 mg/Kg. Therefore, no further investigation or remediation activities are proposed for this AOC.

AOC-4

Two samples pertaining to AOC-4 exceeded 10,000 mg/Kg TOC. Horizontal delineation of TOC north, south, east, and west has been completed as indicated by the relatively low TOC concentrations at peripheral soil sample locations in each of these directions. AOC-3 is located south and is contiguous to AOC-4. Vertical delineation of TOC is precluded by shallow water table depth (~2 feet) in this area.

AOC-5

The sample pertaining to this AOC did not exceed 10,000 mg/Kg. Therefore, no further investigation or remediation activities are proposed for this AOC.

4.2.2.5 Proposed Actions

Remediation of soils exceeding 10,000 mg/Kg in AOC-4 is to be conducted. Development of a Soils Remedial Action Workplan is discussed in Section 5.0 of this report.

No samples pertaining to AOC-3 and 5 exceeded 10,000 mg/Kg. Therefore, no remedial action is proposed for AOC-3 and 5.

4.2.3 AOC-18, AOC-19, AOC-35, AOC-37, AOC-40

AOCs 18, 19, 35, 37, and 40 are located in the portion of the site east of the New Jersey Turnpike and consist of former ASTs and soil borings. A total of 44 samples were collected at this AOC group during the August/September 1994 investigation. An additional nine soil samples were collected at this AOC group by GTI and/or TMGI prior to 1994. The results of these pre-1994 soil samples were reported previously to the NJDEP. **Attachment F** summarizes the pre-1994 soil sample results. **Figure 12** shows the soil sample locations and **Figure 13** presents the TOC concentrations by sample location for this AOC group.

4.2.3.1 AOC-18: AST Area #4 - South Section

AOC-18, located to the northwest of AOC-17, contained 25 ASTs (number 11 through 51, and 63).

A total of 21 soil samples were collected from this area and analyzed for TPH by USEPA Method 418.1.

Figure 13 presents the soil sample locations, sample depths, and the soil sample analytical results. The following table summarizes the distribution of TPH results and samples that required additional analysis.

AOC-18				
Total Samples	TPH > = 10,000 mg/Kg	TPH < 10,000 mg/Kg TPH > = 100 mg/Kg	TPH < 10,000 mg/Kg TPH > = 1,000 mg/Kg	TPH < 100 mg/Kg
21	1	20	13	—
BN + 15 USEPA 8270	—	6	—	—
VO + 10 USEPA 8240	—	—	5	—

Table 18 summarizes the TPH, total VOC, total BN, and TOC concentrations and **Table 19** presents the specific VOC and BN results for samples collected at this AOC.

4.2.3.2 AOC-19: Former Soil Boring #SB-12

AOC-19, located on the west boundary of AOC-18, contained soil boring SB-12.

A total of five soil samples were collected from this area and analyzed for TPH by USEPA Method 418.1.

Figure 13 presents the soil sample locations, sample depths, and the soil sample analytical results. The following table summarizes the distribution of TPH results and samples that required additional analysis.

AOC-19				
Total Samples	TPH > = 10,000 mg/Kg	TPH < 10,000 mg/Kg TPH > = 100 mg/Kg	TPH < 10,000 mg/Kg TPH > = 1,000 mg/Kg	TPH < 100 mg/Kg
5	3	2	1	0
BN+15 USEPA 8270	—	1	—	—
VO+10 USEPA 8240	—	—	1	—

Table 20 summarizes the TPH, total VOC, total BN, and TOC concentrations and **Table 21** presents the specific VOC and BN results for samples collected at this AOC.

4.2.3.3 AOC-35: Former Soil Boring #SB-11

AOC-35, located northwest of AOC-17 and within AOC-18, contained soil boring SB-11.

A total of five soil samples were collected and analyzed for TPH by USEPA Method 418.1.

Figure 13 presents the soil sample locations, sample depths, and the soil sample analytical results. The following table summarizes the distribution of TPH results and samples that required additional analysis.

AOC-35				
Total Samples	TPH > = 10,000 mg/Kg	TPH < 10,000 mg/Kg TPH > = 100 mg/Kg	TPH < 10,000 mg/Kg TPH > = 1,000 mg/Kg	TPH < 100 mg/Kg
5	1	4	4	0
BN + 15 USEPA 8270	—	1	—	—
VO + 10 USEPA 8240	—	—	1	—

Table 22 summarizes the TPH, total VOC, total BN, and TOC concentrations and **Table 23** presents the specific VOC and BN results for samples collected at this AOC.

4.2.3.4 AOC-37: AST Area #4 - North Section

AOC-37, located to the north of AOC-18, contained 10 ASTs (number 52 through 62).

A total of 10 soil samples were collected from this area and analyzed for TPH by USEPA Method 418.1.

Figure 13 presents the soil sample locations, sample depths, and the soil sample analytical results. The following table summarizes the distribution of TPH results and samples that required additional analysis.

AOC-35				
Total Samples	TPH > = 10,000 mg/Kg	TPH < 10,000 mg/Kg TPH > = 100 mg/Kg	TPH < 10,000 mg/Kg TPH > = 1,000 mg/Kg	TPH < 100 mg/Kg
10	1	9	8	0
BN+15 USEPA 8270	—	3	—	—
VO+10 USEPA 8240	—	—	3	—

Table 24 summarizes the TPH, total VOC, total BN, and TOC concentrations and **Table 25** presents the specific VOC and BN results for samples collected at this AOC.

4.2.3.5 AOC-40: Former Soil Boring SB-13

AOC-40, located in the southwest portion of AOC-37, contained former soil boring SB-13.

A total of five soil samples were collected and analyzed for TPH by USEPA Method 418.1.

Figure 13 presents the soil sample locations, sample depths, and the soil sample analytical results. The following table summarizes the distribution of TPH results and samples that required additional analysis.

AOC-40				
Total Samples	TPH > = 10,000 mg/Kg	TPH < 10,000 mg/Kg TPH > = 100 mg/Kg	TPH < 10,000 mg/Kg TPH > = 1,000 mg/Kg	TPH < 100 mg/Kg
5	1	5	3	0
BN+15 USEPA 8270	—	1	1	—
VO+10 USEPA 8240	—	—	—	—

Table 26 summarizes the TPH, total VOC, total BN, and TOC concentrations and **Table 27** presents the specific VOC and BN results for samples collected at this AOC.

4.2.3.6 Results

As indicated on **Figure 13**, of the 53 soil samples collected at this AOC group, a total of 15 samples exceeded 10,000 mg/Kg of TOC.

AOC-18

Five samples pertaining to AOC-18 exceeded 10,000 mg/Kg TOC. Horizontal delineation of TOC north, south, east, and west has been completed as indicated by the relatively low TOC concentrations at peripheral soil sample locations in each of these directions. AOC-37 is located north, AOC-19 is located to the west, AOCs 16 and 17 are located to the south, and AOCs 27 and 29 are located to the east and are contiguous to AOC-18. Vertical delineation of TOC is precluded by shallow water table depth (~2 feet) in this area.

AOC-19

Two samples pertaining to AOC-19 exceeded 10,000 mg/Kg TOC. Horizontal delineation of TOC north, south, east, and west has been completed as indicated by the relatively low TOC concentrations at peripheral soil sample locations in each of these directions. AOC-8 is located to the north and west, and AOC-18 is located to the south and east, and are contiguous to AOC-19. Vertical delineation of TOC is precluded by shallow water table depth (~2 feet) in this area.

AOC-35

One sample pertaining to AOC-35 exceeded 10,000 mg/Kg TOC. Horizontal delineation of TOC north, south, east, and west has been completed as indicated by the relatively low TOC concentrations at peripheral soil sample locations in each of these directions. AOC-18 encompasses AOC-35. Vertical delineation of TOC is precluded by shallow water table depth (~2 feet) in this area.

AOC-37

Three samples pertaining to AOC-37 exceeded 10,000 mg/Kg TOC. Horizontal delineation of TOC north, south, east, and west has been completed as indicated by the relatively low TOC concentrations at peripheral soil sample locations in each of these directions. AOC-8 is located west, and AOC-18 is located south and are contiguous to AOC-37. Vertical delineation of TOC is precluded by shallow water table depth (~2 feet) in this area.

AOC-40

Two samples pertaining to AOC-40 exceeded 10,000 mg/Kg TOC. Horizontal delineation of TOC north, south, east, and west has been completed as indicated by the relatively low TOC concentrations at

peripheral soil sample locations in each of these directions. AOC-8 is located west, AOC-18 is located south and east, and AOC-37 is located north and east and all are contiguous to AOC-40. Vertical delineation of TOC is precluded by shallow water table depth (~2 feet) in this area.

4.2.3.7 Proposed Actions

Remediation of soils exceeding 10,000 mg/Kg in AOCs 18, 19, 35, 37, and 40 is to be conducted. Development of a Soils Remedial Action Workplan is discussed in Section 5.0 of this report.

4.2.4 AOC-8, AOC-9, AOC-10

AOCs 8, 9, and 10 are located in the portion of the site east of the New Jersey Turnpike and consist of a former indoor drummed product storage area, product drum room, loading platform, former soil borings, and a former railroad truck transfer area. A total of 25 soil samples were collected at this AOC group during the August/September 1994 investigation. An additional eight soil samples were collected at this AOC group by GTI and/or TMGI prior to 1994. The results of these pre-1994 soil samples were reported previously to the NJDEP. **Attachment F** summarizes the pre-1994 soil sample results. **Figure 14** shows the soil sample locations and **Figure 15** presents the TOC concentrations by sample location for this AOC group.

4.2.4.1 AOC-8: Central Product Storage Building, Drum Room, Platform

AOC-8, located north of AOC-7, was a former indoor drummed product storage area, product drum room, and loading platform. These areas were underlain by an impermeable concrete floor slab and contained drummed solvents, acids, and caustics.

A total of 17 soil samples were collected around the perimeter of the area at approximate 30 foot intervals. All 17 samples were analyzed for TPH by USEPA Method 418.1.

Figure 15 presents the soil sample locations, sample depths, and the soil sample analytical results. The following table summarizes the distribution of TPH results and samples that required additional analysis.

AOC-8				
Total Samples	TPH > = 10,000 mg/Kg	TPH < 10,000 mg/Kg TPH > = 100 mg/Kg	TPH < 10,000 mg/Kg TPH > = 1,000 mg/Kg	TPH < 100 mg/Kg
17	4	10	3	3
BN+15 USEPA 8270	—	3	—	—
VO+10 USEPA 8240	—	—	1	—

Table 28 summarizes the TPH, total VOC, total BN, and TOC concentrations and **Table 29** presents the specific VOC and BN results for samples collected at this AOC.

4.2.4.2 AOC-9: Former Soil Borings #SB-40 & MW-12

AOC-9, located partially within AOC-8 on the southeastern portion, contains former soil borings SB-40 and MW-12.

Eight soil samples were collected from this area and analyzed for TPH by USEPA Method 418.1.

Figure 15 presents the soil sample locations, sample depths, and the soil sample analytical results.

The following table summarizes the distribution of TPH results and samples that required additional analysis.

AOC-9				
Total Samples	TPH > = 10,000 mg/Kg	TPH < 10,000 mg/Kg TPH > = 100 mg/Kg	TPH < 10,000 mg/Kg TPH > = 1,000 mg/Kg	TPH < 100 mg/Kg
8	4	4	3	0
BN+15 USEPA 8270	---	1	—	—
VO+10 USEPA 8240	—	—	1	—

Table 30 summarizes the TPH, total VOC, total BN, and TOC concentrations and **Table 31** presents the specific VOC and BN results for samples collected at this AOC.

4.2.4.3 AOC-10: Track #2 Rail Car Loading Area

AOC-10, located east of AOC-7 and AOC-8 and labeled Track #2, was a former railroad truck transfer area. Former activities included the transfer of incoming bulk shipments by above ground hoses and pumps from railroad tank cars to storage tanks within the various AST areas.

A total of four soil samples were collected in this area at approximate 30 foot intervals along the railroad track. All four samples were analyzed for TPH by USEPA Method 418.1.

Figure 15 presents the soil sample locations, sample depths, and the soil sample analytical results. The following table summarizes the distribution of TPH results and samples that required additional analysis.

AOC-10				
Total Samples	TPH > = 10,000 mg/Kg	TPH < 10,000 mg/Kg TPH > = 100 mg/Kg	TPH < 10,000 mg/Kg TPH > = 1,000 mg/Kg	TPH < 100 mg/Kg
4	4	0	0	0
BN + 15 USEPA 8270	—	0	—	—
VO + 10 USEPA 8240	—	—	0	—

Table 32 summarizes the TPH, total VOC, total BN, and TOC concentrations.

4.2.4.4 Results

As indicated on **Figure 15**, of the 33 soil samples collected at this AOC group, a total of 8 samples exceeded 10,000 mg/Kg of TOC.

AOC-8

Five samples pertaining to AOC-8 exceeded 10,000 mg/Kg TOC. Horizontal delineation of TOC north, south, and east have been completed as indicated by the relatively low TOC concentrations at peripheral soil sample locations in each of these directions. Horizontal delineation to the west is precluded by the New Jersey Turnpike and to the north by the property line. AOCs 9, 10, 18, and 37 are located east and AOC-10 is also located south and all are contiguous to AOC-8. Vertical delineation of TOC is precluded by shallow water table depth (~2 feet) in this area.

AOC-9

Four samples pertaining to AOC-9 exceeded 10,000 mg/Kg TOC. Horizontal delineation of TOC north, south, east, and west has been completed as indicated by the relatively low TOC concentrations at peripheral soil sample locations in each of these directions. AOC-8 is located west and north, AOCs 9 and 10 are located south, and AOC-10 is also located east and all are contiguous to AOC-9. Vertical delineation of TOC is precluded by shallow water table depth (~2 feet) in this area.

AOC-10

Three samples pertaining to AOC-10 exceeded 10,000 mg/Kg TOC. Horizontal delineation of TOC north, south, east, and west has been completed as indicated by the relatively low TOC concentrations at peripheral soil sample locations in each of these directions. AOC-8 is located west and north, AOC-9 is located north, and AOC-11 is located east and all are contiguous to AOC-10. Vertical delineation of TOC is precluded by shallow water table depth (~2 feet) in this area.

4.2.4.5 Proposed Actions

Remediation of soils exceeding 10,000 mg/Kg in AOCs 8, 9, and 10 is to be conducted. Development of a Soils Remedial Action Workplan is discussed in Section 5.0 of this report.

4.2.5 AOC-11, AOC-16, AOC-17

AOCs 11, 16, and 17 are located in the portion of the site east of the New Jersey Turnpike and consist of a former railroad track and rail car transfer area, soil borings, and tank truck transfer area. A total of 24 soil samples were collected at this AOC group during the August/September 1994 investigation. An additional six soil samples were collected at this AOC group by GTI and/or TMGI prior to 1994. The results of these pre-1994 soil samples were reported previously to the NJDEP. **Attachment F** summarizes the pre-1994 soil sample results. **Figure 16** shows the soil sample locations and **Figure 17** presents the TOC concentrations by sample location for this AOC group.

4.2.5.1 AOC-11: Track #3 Railroad Track, Rail Car Loading Rack

AOC-11, located south of AOC-10 and labeled Track #3, was a former railroad track and rail car transfer area. Former activities included the transfer of incoming bulk shipments by above ground hoses and pumps from railroad tank cars to ASTs.

A total of eleven soil samples were collected at approximate 30 foot intervals along the railroad track. All eleven samples were analyzed for TPH by USEPA Method 418.1.

Figure 17 presents the soil sample locations, sample depths, and the soil sample analytical results. The following table summarizes the distribution of TPH results and samples that required additional analysis.

AOC-11				
Total Samples	TPH > = 10,000 mg/Kg	TPH < 10,000 mg/Kg TPH > = 100 mg/Kg	TPH < 10,000 mg/Kg TPH > = 1,000 mg/Kg	TPH < 100 mg/Kg
11	1	10	9	0
BN + 15 USEPA 8270	—	4	—	—
VO + 10 USEPA 8240	—	—	4	—

Table 33 summarizes the TPH, total VOC, total BN, and TOC concentrations and **Table 34** presents the specific VOC and BN results for samples collected at this AOC.

4.2.5.2 AOC-16: Former Soil Borings #SB-19 & SB-48, 2,000 Gallon Product Recovery UST

AOC-16, located north of AOC-14 and AOC-15, contains soil borings SB-19 and SB-48 which were collected at the location of a former 2,000 gallon product recovery UST located east of the pump house.

A total of 11 soil samples were collected and analyzed for TPH by USEPA Method 418.1.

Figure 17 presents the soil sample locations, sample depths, and the soil sample analytical results. The following table summarizes the distribution of TPH results and samples that required additional analysis.

AOC-16				
Total Samples	TPH > = 10,000 mg/Kg	TPH < 10,000 mg/Kg TPH > = 100 mg/Kg	TPH < 10,000 mg/Kg TPH > = 1,000 mg/Kg	TPH < 100 mg/Kg
11	3	8	7	0
BN+15 USEPA 8270	—	2	—	—
VO+10 USEPA 8240	—	—	2	—

Table 35 summarizes the TPH, total VOC, total BN, and TOC concentrations and **Table 36** presents the specific VOC and BN results for samples collected at this AOC.

4.2.5.3 AOC-17: Central-North Tank Truck Loading Area

AOC-17, adjacent to AOC-16 to the northwest, was a former tank truck transfer area of chemicals, fuel oil, and diesel fuel. Transfers were accomplished by hoses and pumps which were connected to fixed above ground piping to transfer the material to various tanks.

A total of four soil samples were collected in this area and analyzed for TPH by USEPA Method 418.1.

Figure 17 presents the soil sample locations, sample depths, and the soil sample analytical results. The following table summarizes the distribution of TPH results and samples that required additional analysis.

AOC-17				
Total Samples	TPH > = 10,000 mg/Kg	TPH < 10,000 mg/Kg TPH > = 100 mg/Kg	TPH < 10,000 mg/Kg TPH > = 1,000 mg/Kg	TPH < 100 mg/Kg
4	2	2	2	0
BN+15 USEPA 8270	—	1	—	—
VO+10 USEPA 8240	—	—	1	—

Table 37 summarizes the TPH, total VOC, total BN, and TOC concentrations and **Table 38** presents the specific VOC and BN results for samples collected at this AOC.

4.2.5.4 Results

As indicated on **Figure 17**, of the 30 soil samples collected at this AOC group, a total of 15 samples exceeded 10,000 mg/Kg of TOC.

AOC-11

Five samples pertaining to AOC-11 exceeded 10,000 mg/Kg TOC. Horizontal delineation of TOC north, south, east, and west have been completed as indicated by the relatively low TOC concentrations at peripheral soil sample locations in each of these directions. AOC-10 is located west, AOCs 12, 13, 14, and 15 are located south, and AOC-16 is located east and all are contiguous to AOC-11. Vertical delineation of TOC is precluded by shallow water table depth (~2 feet) in this area.

AOC-16

Seven samples pertaining to AOC-16 exceeded 10,000 mg/Kg TOC. Horizontal delineation of TOC north, south, east, and west has been completed as indicated by the relatively low TOC concentrations at peripheral soil sample locations in each of these directions. AOCs 15 and 11 are located south and AOC-17 is located west and all are contiguous to AOC-16. Vertical delineation of TOC is precluded by shallow water table depth (~2 feet) in this area.

AOC-17

Three samples pertaining to AOC-17 exceeded 10,000 mg/Kg TOC. Horizontal delineation of TOC north, south, east, and west has been completed as indicated by the relatively low TOC concentrations at peripheral soil sample locations in each of these directions. AOC-18 is located north and AOC-16 is located south and are contiguous to AOC-17. Vertical delineation of TOC is precluded by shallow water table depth (~2 feet) in this area.

4.2.5.5 Proposed Actions

Remediation of soils exceeding 10,000 mg/Kg in AOCs 10, 16, and 17 is to be conducted. Development of a Soils Remedial Action Workplan is discussed in Section 5.0 of this report.

4.2.6 AOC-12, AOC-13, AOC-14, AOC-15

AOCs 12, 13, 14, and 15 are located in the portion of the site east of the New Jersey Turnpike and consist of a former tank truck transfer area, product drumming room, an indoor product drum storage area, and ASTs. A total of 25 soil samples were collected at this AOC group during the August/September 1994 investigation. An additional four soil samples were collected at this AOC group by GTI and/or TMGI prior to 1994. The results of these pre-1994 soil samples were reported previously to the NJDEP. **Attachment F** summarizes the pre-1994 soil sample results. **Figure 18** shows the soil sample locations and **Figure 19** presents the TOC concentrations by sample location for this AOC group.

4.2.6.1 AOC-12: Central-South Product Storage, Drum Room, Tank Truck Loading Area

AOC-12, located in the southern portion of the eastern plant, was a former tank truck transfer area, product drumming room, and indoor product drum storage area. The former tank truck transfer area transferred chemicals, fuel oil, and diesel fuel by hoses and pumps which were connected to fixed above ground piping for transfer of the material to various tanks. The product drum room was located under a roof within enclosed structures and underlain by an impermeable concrete floor slab. The indoor and impermeable product drum storage area was underlain by an impermeable concrete floor slab and contained drummed solvents, acids, and caustics.

A total eight soil samples were collected at various locations in this area. All eight samples were analyzed for TPH by USEPA Method 418.1.

Figure 19 presents the soil sample locations, sample depths, and the soil sample analytical results. The following table summarizes the distribution of TPH results and samples that required additional analysis.

AOC-12				
Total Samples	TPH > = 10,000 mg/Kg	TPH < 10,000 mg/Kg TPH > = 100 mg/Kg	TPH < 10,000 mg/Kg TPH > = 1,000 mg/Kg	TPH < 100 mg/Kg
8	2	5	3	1
BN + 15 USEPA 8270	—	2	—	—
VO + 10 USEPA 8240	—	—	1	—

Table 39 summarizes the TPH, total VOC, total BN, and TOC concentrations and **Table 40** presents the specific VOC and BN results for samples collected at this AOC.

4.2.6.2 AOC-13: AST Area #3 - West Section

AOC-13, located east of AOC-12, consisted of seven ASTs (number 101 through 106, and 117).

A total of seven soil samples were collected in this area and analyzed for TPH by USEPA Method 418.1.

Figure 19 presents the soil sample locations, sample depths, and the soil sample analytical results. The following table summarizes the distribution of TPH results and samples that required additional analysis.

AOC-13				
Total Samples	TPH > = 10,000 mg/Kg	TPH < 10,000 mg/Kg TPH > = 100 mg/Kg	TPH < 10,000 mg/Kg TPH > = 1,000 mg/Kg	TPH < 100 mg/Kg
7	1	7	3	0
BN + 15 USEPA 8270	—	2	—	—
VO + 10 USEPA 8240	—	—	1	—

Table 41 summarizes the TPH, total VOC, total BN, and TOC concentrations and **Table 42** presents the specific VOC and BN results for samples collected at this AOC.

4.2.6.3 AOC-14: AST Area #3 - Central Section

AOC-14, located east of AOC-13, consisted of 5 ASTs (number 107 through 111).

A total five soil samples were collected and analyzed for TPH by USEPA Method 418.1.

Figure 19 presents the soil sample locations, sample depths, and the soil sample analytical results. The following table summarizes the distribution of TPH results and samples that required additional analysis.

AOC-14				
Total Samples	TPH > = 10,000 mg/Kg	TPH < 10,000 mg/Kg TPH > = 100 mg/Kg	TPH < 10,000 mg/Kg TPH > = 1,000 mg/Kg	TPH < 100 mg/Kg
5	0	5	4	0
BN+15 USEPA 8270	—	2	—	—
VO+10 USEPA 8240	—	—	1	—

Table 43 summarizes the TPH, total VOC, total BN, and TOC concentrations and **Table 44** presents the specific VOC and BN results for samples collected at this AOC.

4.2.6.4 AOC-15: AST Area #3 - East Section

AOC-15, located east of AOC-14, consisted of 5 ASTs (number 112 through 116).

A total of five soil samples were collected and analyzed for TPH by USEPA Method 418.1.

Figure 19 presents the soil sample locations, sample depths, and the soil sample analytical results. The following table summarizes the distribution of TPH results and samples that required additional analysis.

AOC-15				
Total Samples	TPH > = 10,000 mg/Kg	TPH < 10,000 mg/Kg TPH > = 100 mg/Kg	TPH < 10,000 mg/Kg TPH > = 1,000 mg/Kg	TPH < 100 mg/Kg
5	1	4	3	0
BN + 15 USEPA 8270	—	1	—	—
VO + 10 USEPA 8240	—	—	1	—

Table 45 summarizes the TPH, total VOC, total BN, and TOC concentrations and **Table 46** presents the specific VOC and BN results for samples collected at this AOC.

4.2.6.5 Results

As indicated on **Figure 19**, of the 29 soil samples collected at this AOC group, a total of six samples exceeded 10,000 mg/Kg of TOC.

AOC-12

Four samples pertaining to AOC-12 exceeded 10,000 mg/Kg TOC. Horizontal delineation of TOC north, south, east, and west have been completed as indicated by the relatively low TOC concentrations at peripheral soil sample locations in each of these directions. AOC-11 is located north, AOC-13 is located east and are contiguous to AOC-12. Vertical delineation of TOC is precluded by shallow water table depth (~2 feet) in this area.

AOC-13

One sample pertaining to AOC-13 exceeded 10,000 mg/Kg TOC. Horizontal delineation of TOC north, south, east, and west has been completed as indicated by the relatively low TOC concentrations at peripheral soil sample locations in each of these directions. AOC-12 is located west, AOC-11 is located north, and AOC-14 is located east and all are contiguous to AOC-13. Vertical delineation of TOC is precluded by shallow water table depth (~2 feet) in this area.

AOC-14

None of the samples pertaining to this AOC exceeded 10,000 mg/Kg. Therefore, no further investigation or remediation activities are proposed for this AOC.

AOC-15

One sample pertaining to AOC-15 exceeded 10,000 mg/Kg TOC. Horizontal delineation of TOC north, south, east, and west has been completed as indicated by the relatively low TOC concentrations at peripheral soil sample locations in each of these directions. AOC-16 is located north and AOC-14 is located west and are contiguous to AOC-15. Vertical delineation of TOC is precluded by shallow water table depth (~2 feet) in this area.

4.2.6.6 Proposed Actions

Remediation of soils exceeding 10,000 mg/Kg in AOCs 12, 13, and 15 is to be conducted. Development of a Soils Remedial Action Workplan is discussed in Section 5.0 of this report.
No samples pertaining to AOC-14 exceeded 10,000 mg/Kg. Therefore, no remedial action is proposed for AOC-14.

4.2.7 AOC-21, AOC-22

AOCs 21 and 22 are located in the portion of the site east of the New Jersey Turnpike and consist of a former UST areas. A total of eight soil samples were collected at this AOC group during the August/September 1994 investigation. An additional five soil samples were collected at this AOC group by GTI and/or TMGI prior to 1994. The results of these pre-1994 soil samples were reported previously to the NJDEP. **Attachment F** summarizes the pre-1994 soil sample results. **Figure 20** shows the soil sample locations and **Figure 21** presents the TOC concentrations by sample location for this AOC group.

4.2.7.1 AOC-21: Former 1,000 Gallon Diesel UST (UST#1)

AOC-21, located to the northeast of AOC-18, contained a former 1,000 gallon diesel UST. The UST was installed in 1953 and removed on 12 September 1985.

A total of four soil samples were collected in this area and analyzed for TPH by USEPA Method 418.1.

Figure 21 presents the soil sample locations, sample depths, and the soil sample analytical results. The following table summarizes the distribution of TPH results and samples that required additional analysis.

AOC-21				
Total Samples	TPH > = 10,000 mg/Kg	TPH < 10,000 mg/Kg TPH > = 100 mg/Kg	TPH < 10,000 mg/Kg TPH > = 1,000 mg/Kg	TPH < 100 mg/Kg
4	0	4	3	0
BN + 15 USEPA 8270	—	1	—	—
VO + 10 USEPA 8240	—	—	1	—

Table 47 summarizes the TPH, total VOC, total BN, and TOC concentrations and **Table 48** presents the specific VOC and BN results for samples collected at this AOC.

4.2.7.2 AOC-22: Former 300 Gallon Fuel Oil UST (UST#2)

AOC-22, located to the east of AOC-20, contained a former 300 gallon fuel oil UST. The UST was installed in 1953 and removed on 12 September 1985.

A total of four soil samples were collected around the former UST and analyzed for TPH by USEPA Method 418.1.

Figure 21 presents the soil sample locations, sample depths, and the soil sample analytical results. The following table summarizes the distribution of TPH results and samples that required additional analysis.

AOC-22				
Total Samples	TPH > = 10,000 mg/Kg	TPH < 10,000 mg/Kg TPH > = 100 mg/Kg	TPH < 10,000 mg/Kg TPH > = 1,000 mg/Kg	TPH < 100 mg/Kg
4	0	3	0	1
BN + 15 USEPA 8270	—	1	—	—
VO + 10 USEPA 8240	—	—	0	—

Table 49 summarizes the TPH, total VOC, total BN, and TOC concentrations and **Table 50** presents the specific VOC and BN results for samples collected at this AOC.

4.2.7.3 Results

As indicated on **Figure 21**, of the 13 soil samples collected at this AOC group, none of the samples exceeded 10,000 mg/Kg of TOC.

AOC-21

None of the samples pertaining to this AOC exceeded 10,000 mg/Kg. Therefore, no further investigation or remediation activities are proposed for this AOC.

AOC-22

None of the samples pertaining to this AOC exceeded 10,000 mg/Kg. Therefore, no further investigation or remediation activities are proposed for this AOC.

4.2.7.4 Proposed Actions

No samples pertaining to AOCs 21 and 22 exceeded 10,000 mg/Kg. Therefore, no remedial action is proposed for AOCs 21 and 22.

4.2.8 AOC-20, AOC-24, AOC-25

AOCs 20, 24, and 25 are located in the portion of the site east of the New Jersey Turnpike and consist of a sanitary sewer oil/water separator and sump pump, and stormwater catch basins. A total of three soil samples were collected at this AOC group during the August/September 1994 investigation. One additional soil sample was collected at this AOC group by GTI and/or TMGI prior to 1994. The results of these pre-1994 soil samples were reported previously to the NJDEP. **Attachment F** summarizes the pre-1994 soil sample results. **Figure 22** shows the soil sample locations and **Figure 23** presents the TOC concentrations by sample location for this AOC group.

4.2.8.1 AOC-20: Central Sanitary Sewer Oil/Water Separator

AOC-20, located on the northeast portion of AOC-18, was the location of a sanitary sewer oil/water separator and sump pump.

One soil sample was collected and analyzed for TPH by USEPA Method 418.1.

Figure 23 presents the soil sample location, sample depth, and the soil sample analytical results. The following table summarizes the distribution of TPH results and samples that required additional analysis.

AOC-20				
Total Samples	TPH > = 10,000 mg/Kg	TPH < 10,000 mg/Kg TPH > = 100 mg/Kg	TPH < 10,000 mg/Kg TPH > = 1,000 mg/Kg	TPH < 100 mg/Kg
1	0	0	0	1
BN + 15 USEPA 8270	—	—	—	—
VO + 10 USEPA 8240	—	—	—	—

Table 51 summarizes the TPH, total VOC, total BN, and TOC concentrations.

4.2.8.2 AOC-24: Central Stormwater Catch Basin

AOC-24, located to the southwest of AOC-23, contained a stormwater catch basin.

One soil sample was collected and analyzed for TPH by USEPA Method 418.1.

Figure 23 presents the soil sample locations, sample depths, and the soil sample analytical results. The following table summarizes the distribution of TPH results and samples that required additional analysis.

AOC-24				
Total Samples	TPH > = 10,000 mg/Kg	TPH < 10,000 mg/Kg TPH > = 100 mg/Kg	TPH < 10,000 mg/Kg TPH > = 1,000 mg/Kg	TPH < 100 mg/Kg
1	0	0	0	1
BN + 15 USEPA 8270	—	—	—	—
VO + 10 USEPA 8240	—	—	—	—

Table 52 summarizes the TPH, total VOC, total BN, and TOC concentrations.

4.2.8.3 AOC-25: East Stormwater Catch Basin

AOC-25, located to the east of AOC-18, contained a stormwater catch basin.

One soil sample was collected and analyzed for TPH by USEPA Method 418.1.

Figure 23 presents the soil sample locations, sample depths, and the soil sample analytical results. The following table summarizes the distribution of TPH results and samples that required additional analysis.

AOC-25				
Total Samples	TPH > = 10,000 mg/Kg	TPH < 10,000 mg/Kg TPH > = 100 mg/Kg	TPH < 10,000 mg/Kg TPH > = 1,000 mg/Kg	TPH < 100 mg/Kg
1	0	1	1	0
BN+15 USEPA 8270	—	1	—	—
VO+10 USEPA 8240	—	—	1	—

Table 53 summarizes the TPH, total VOC, total BN, and TOC concentrations and **Table 54** presents the specific VOC and BN results for samples collected at this AOC.

4.2.8.4 Results

As indicated on **Figure 23**, of the four soil samples collected at this AOC group, none of the samples exceeded 10,000 mg/Kg of TOC.

AOC-20

None of the samples pertaining to this AOC exceeded 10,000 mg/Kg. Therefore, no further investigation or remediation activities are proposed for this AOC.

AOC-24

None of the samples pertaining to this AOC exceeded 10,000 mg/Kg. Therefore, no further investigation or remediation activities are proposed for this AOC.

AOC-25

None of the samples pertaining to this AOC exceeded 10,000 mg/Kg. Therefore, no further investigation or remediation activities are proposed for this AOC.

4.2.8.5 Proposed Actions

No samples pertaining to AOCs 20, 24, and 25 exceeded 10,000 mg/Kg. Therefore, no remedial action is proposed for AOCs 20, 24, and 25.

4.2.9 AOC-23, AOC-26

AOCs 23 and 26 are located in the portion of the site east of the New Jersey Turnpike and consist of former indoor and outdoor impermeable product drum storage areas, and ASTs. A total of 15 soil samples were collected at this AOC group during the August/September 1994 investigation. An additional three soil samples were collected at this AOC group by GTI and/or TMGI prior to 1994. The results of these pre-1994 soil samples were reported previously to the NJDEP. **Attachment F** summarizes the pre-1994 soil sample results. **Figure 24** shows the soil sample locations and **Figure 25** presents the TOC concentrations by sample location for this AOC group.

4.2.9.1 AOC-23: East-North Product Storage Building, Platform

AOC-23, located to the east of AOC-21 and AOC-22, contained indoor and outdoor impermeable product drum storage areas which stored drummed solvents, acids, and caustics. The building was underlain by an impermeable concrete floor slab.

A total of 10 soil samples were collected around the perimeter of the area at approximate 30 foot intervals.

Figure 25 presents the soil sample locations, sample depths, and the soil sample analytical results. The following table summarizes the distribution of TPH results and samples that required additional analysis.

AOC-23				
Total Samples	TPH > = 10,000 mg/Kg	TPH < 10,000 mg/Kg TPH > = 100 mg/Kg	TPH < 10,000 mg/Kg TPH > = 1,000 mg/Kg	TPH < 100 mg/Kg
10	1	9	5	0
BN + 15 USEPA 8270	—	3	—	—
VO + 10 USEPA 8240	—	—	2	—

Table 55 summarizes the TPH, total VOC, total BN, and TOC concentrations and **Table 56** presents the specific VOC and BN results for samples collected at this AOC.

4.2.9.2 AOC-26: AST Area #5

AOC-26, adjacent to AOC-23 to the east, contained 5 ASTs which had been removed prior to 1986.

A total of five soil samples were collected and analyzed for TPH by USEPA Method 418.1.

Figure 25 presents the soil sample locations, sample depths, and the soil sample analytical results. The following table summarizes the distribution of TPH results and samples that required additional analysis.

AOC-26				
Total Samples	TPH > = 10,000 mg/Kg	TPH < 10,000 mg/Kg TPH > = 100 mg/Kg	TPH < 10,000 mg/Kg TPH > = 1,000 mg/Kg	TPH < 100 mg/Kg
5	0	5	3	0
BN + 15 USEPA 8270	—	2	—	—
VO + 10 USEPA 8240	—	—	1	—

Table 57 summarizes the TPH, total VOC, total BN, and TOC concentrations and **Table 58** presents the specific VOC and BN results for samples collected at this AOC.

4.2.9.3 Results

As indicated on **Figure 25**, of the 18 soil samples collected at this AOC group, a total of one sample exceeded 10,000 mg/Kg of TOC.

AOC-23

One sample pertaining to AOC-23 exceeded 10,000 mg/Kg TOC. Horizontal delineation of TOC north, south, east, and west have been completed as indicated by the relatively low TOC concentrations at peripheral soil sample locations in each of these directions. AOC-26 is located east and AOC-27 is located south and are contiguous to AOC-23. Vertical delineation of TOC is precluded by shallow water table depth (~2 feet) in this area.

AOC-26

None of the samples pertaining to this AOC exceeded 10,000 mg/Kg. Therefore, no further investigation or remediation activities are proposed for this AOC.

4.2.9.4 *Proposed Actions*

Remediation of soils exceeding 10,000 mg/Kg in AOC-23 is to be conducted. Development of a Soils Remedial Action Workplan is discussed in Section 5.0 of this report.

No samples pertaining to AOC-26 exceeded 10,000 mg/Kg. Therefore, no remedial action is proposed for AOC-26.

4.2.10 AOC-27, AOC-28, AOC-29

AOCs 27, 28, and 29 are located in the portion of the site east of the New Jersey Turnpike and consist of former indoor and outdoor drum storage areas, ASTs, a neutralization pit, and soil boring. A total of 33 soil samples were collected at this AOC group during the August/September 1994 investigation. An additional nine soil samples were collected at this AOC group by GTI and/or TMGI prior to 1994. The results of these pre-1994 soil samples were reported previously to the NJDEP. **Attachment F** summarizes the pre-1994 soil sample results. **Figure 26** shows the soil sample locations and **Figure 27** presents the TOC concentrations by sample location for this AOC group.

4.2.10.1 AOC-27: East-South Product Storage Building, Platform

AOC-27, south of AOC-23, contained four indoor and outdoor drum storage areas. All areas were underlain by an impermeable concrete floor slab and contained drummed solvents, acids, and caustics.

A total of 24 soil samples were collected around the perimeter of the area at approximate 30 foot intervals.

Figure 27 presents the soil sample locations, sample depths, and the soil sample analytical results. The following table summarizes the distribution of TPH results and samples that required additional analysis.

AOC-27				
Total Samples	TPH > = 10,000 mg/Kg	TPH < 10,000 mg/Kg TPH > = 100 mg/Kg	TPH < 10,000 mg/Kg TPH > = 1,000 mg/Kg	TPH < 100 mg/Kg
24	2	20	10	2
BN + 15 USEPA 8270	—	6	—	—
VO + 10 USEPA 8240	—	—	3	—

Table 59 summarizes the TPH, total VOC, total BN, and TOC concentrations and **Table 60** presents the specific VOC and BN results for samples collected at this AOC.

4.2.10.2 AOC-28: AST Area #6

AOC-28, adjacent to AOC-27 to the north, contained 5 ASTs which had been removed prior to 1986.

A total of five soil samples were collected and analyzed for TPH by USEPA Method 418.1.

Figure 27 presents the soil sample locations, sample depths, and the soil sample analytical results. The following table summarizes the distribution of TPH results and samples that required additional analysis.

AOC-28				
Total Samples	TPH > = 10,000 mg/Kg	TPH < 10,000 mg/Kg TPH > = 100 mg/Kg	TPH < 10,000 mg/Kg TPH > = 1,000 mg/Kg	TPH < 100 mg/Kg
5	0	4	3	1
BN + 15 USEPA 8270	—	1	—	—
VO + 10 USEPA 8240	—	—	1	—

Table 61 summarizes the TPH, total VOC, total BN, and TOC concentrations and **Table 62** presents the specific VOC and BN results for samples collected at this AOC.

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4.2.10.3 AOC-29: Neutralization Pit, Former Soil Boring #SB-54

AOC-29, adjacent to AOC-27 to the southwest, contained a neutralization pit and former soil boring #SB-54.

A total of five soil samples were collected at this location and analyzed for TPH by USEPA Method 418.1.

Figure 27 presents the soil sample locations, sample depths, and the soil sample analytical results. The following table summarizes the distribution of TPH results and samples that required additional analysis.

AOC-29				
Total Samples	TPH > = 10,000 mg/Kg	TPH < 10,000 mg/Kg TPH > = 100 mg/Kg	TPH < 10,000 mg/Kg TPH > = 1,000 mg/Kg	TPH < 100 mg/Kg
5	0	5	5	0
BN + 15 USEPA 8270	—	2	—	—
VO + 10 USEPA 8240	—	—	2	—

Table 63 summarizes the TPH, total VOC, total BN, and TOC concentrations and **Table 64** presents the specific VOC and BN results for samples collected at this AOC.

4.2.10.4 Results

As indicated on **Figure 27**, of the 44 soil samples collected at this AOC group, a total of four samples exceeded 10,000 mg/Kg of TOC.

AOC-27

Two samples pertaining to AOC-27 exceeded 10,000 mg/Kg TOC. Horizontal delineation of TOC north, south, east, and west have been completed as indicated by the relatively low TOC concentrations at peripheral soil sample locations in each of these directions. Vertical delineation of TOC is precluded by shallow water table depth (~2 feet) in this area.

AOC-28

One sample pertaining to AOC-28 exceeded 10,000 mg/Kg TOC. Horizontal delineation of TOC north, south, east, and west have been completed as indicated by the relatively low TOC concentrations at peripheral soil sample locations in each of these directions. AOC-27 is located south and west and is contiguous to AOC-28. Vertical delineation of TOC is precluded by shallow water table depth (~2 feet) in this area.

AOC-29

One sample pertaining to AOC-28 exceeded 10,000 mg/Kg TOC. Horizontal delineation of TOC north, south, east, and west have been completed as indicated by the relatively low TOC concentrations at peripheral soil sample locations in each of these directions. AOC-27 is located north and east, and AOC-11 is located south and are contiguous to AOC-29. Vertical delineation of TOC is precluded by shallow water table depth (~2 feet) in this area.

4.2.10.5 Proposed Actions

Remediation of soils exceeding 10,000 mg/Kg in AOCs 27, 28, and 29 is to be conducted. Development of a Soils Remedial Action Workplan is discussed in Section 5.0 of this report.

4.2.11 AOC-30, AOC-31

AOCs 30 and 31 are located in the portion of the site east of the New Jersey Turnpike and consist of former UST and ASTs area. A total of 14 soil samples were collected at this AOC group during the August/September 1994 investigation. An additional four soil samples were collected at this AOC group by GTI and/or TMGI prior to 1994. The results of these pre-1994 soil samples were reported previously to the NJDEP. **Attachment F** summarizes the pre-1994 soil sample results. **Figure 28** shows the soil sample locations and **Figure 29** presents the TOC concentrations by sample location for this AOC group.

4.2.11.1 AOC-30: AST Area #7

AOC-30, located in the southeast portion of the property, contained 10 ASTs which had been removed prior to 1986.

A total of 10 soil samples were collected and analyzed for TPH by USEPA Method 418.1.

Figure 28 presents the soil sample locations, sample depths, and the soil sample analytical results. The following table summarizes the distribution of TPH results and samples that required additional analysis.

AOC-30				
Total Samples	TPH > = 10,000 mg/Kg	TPH < 10,000 mg/Kg TPH > = 100 mg/Kg	TPH < 10,000 mg/Kg TPH > = 1,000 mg/Kg	TPH < 100 mg/Kg
10	1	10	3	0
BN+15 USEPA 8270	—	3	—	—
VO+10 USEPA 8240	—	—	1	—

Table 65 summarizes the TPH, total VOC, total BN, and TOC concentrations and **Table 66** presents the specific VOC and BN results for samples collected at this AOC.

4.2.11.2 AOC-31: 10,000 Gallon Product Recovery UST

AOC-31, located to the southeast of AOC-30, contained a former 10,000 gallon product recovery UST. The UST was installed in 1969 and removed 7 May 1986.

A total of four soil samples were collected around the former UST.

Figure 29 presents the soil sample locations, sample depths, and the soil sample analytical results. The following table summarizes the distribution of TPH results and samples that required additional analysis.

AOC-31				
Total Samples	TPH > = 10,000 mg/Kg	TPH < 10,000 mg/Kg TPH > = 100 mg/Kg	TPH < 10,000 mg/Kg TPH > = 1,000 mg/Kg	TPH < 100 mg/Kg
4	1	3	1	0
BN+15 USEPA 8270	—	1	—	—
VO+10 USEPA 8240	—	—	1	—

Table 67 summarizes the TPH, total VOC, total BN, and TOC concentrations and **Table 68** presents the specific VOC and BN results for samples collected at this AOC.

4.2.11.3 Results

As indicated on **Figure 29**, of the 18 soil samples collected at this AOC group, a total of one sample exceeded 10,000 mg/Kg of TOC.

AOC-30

None of the samples pertaining to this AOC exceeded 10,000 mg/Kg. Therefore, no further investigation or remediation activities are proposed for this AOC.

AOC-31

One sample pertaining to AOC-31 exceeded 10,000 mg/Kg TOC. Horizontal delineation of TOC north, south, east, and west have been completed as indicated by the relatively low TOC concentrations at peripheral soil sample locations in each of these directions. AOC-30 is located north, south, east, and west and is contiguous to AOC-31. Vertical delineation of TOC is precluded by shallow water table depth (~2 feet) in this area.

4.2.11.4 Proposed Actions

Remediation of soils exceeding 10,000 mg/Kg in AOC-31 is to be conducted. Development of a Soils Remedial Action Workplan is discussed in Section 5.0 of this report.

No samples pertaining to AOC-30 exceeded 10,000 mg/Kg. Therefore, no remedial action is proposed for AOC-30.

4.2.12 AOC-32, AOC-33, AOC-34

AOCs 32, 33, and 34 are located in the portion of the site east of the New Jersey Turnpike and consist of a railroad track and rail car transfer area, former ASTs areas, and a soil boring. A total of 18 soil samples were collected at this AOC group during the August/September 1994 investigation. An additional nine soil samples were collected at this AOC group by GTI and/or TMGI prior to 1994. The results of these pre-1994 soil samples were reported previously to the NJDEP. **Attachment F** summarizes the pre-1994 soil sample results. **Figure 30** shows the soil sample locations and **Figure 31** presents the TOC concentrations by sample location for this AOC group.

4.2.12.1 AOC-32: Track #4 Railroad Track, Rail Car Loading Area

AOC-32, located in the southeast portion of the property and labeled Track #4, contains a railroad track and rail car transfer area. Former activities included the transfer of incoming bulk shipments by above ground hoses and pumps from railroad tank cars to storage tanks within the various AST areas.

A total of 10 samples were collected at approximate 30 foot intervals along the railroad track. All ten samples were analyzed for TPH by USEPA Method 418.1.

Figure 31 presents the soil sample locations, sample depths, and the soil sample analytical results. The following table summarizes the distribution of TPH results and samples that required additional analysis.

AOC-32				
Total Samples	TPH > = 10,000 mg/Kg	TPH < 10,000 mg/Kg TPH > = 100 mg/Kg	TPH < 10,000 mg/Kg TPH > = 1,000 mg/Kg	TPH < 100 mg/Kg
10	0	10	4	0
BN + 15 USEPA 8270	—	2	—	—
VO + 10 USEPA 8240	—	—	1	—

Table 69 summarizes the TPH, total VOC, total BN, and TOC concentrations and **Table 70** presents the specific VOC and BN results for samples collected at this AOC.

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4.2.12.2 AOC-33: AST Area #8

AOC-33, located south of AOC-32, contained 4 ASTs (number 151 through 153).

A total of four samples were collected and analyzed for TPH by USEPA Method 418.1.

Figure 31 presents the soil sample locations, sample depths, and the soil sample analytical results. The following table summarizes the distribution of TPH results and samples that required additional analysis.

AOC-33				
Total Samples	TPH > = 10,000 mg/Kg	TPH < 10,000 mg/Kg TPH > = 100 mg/Kg	TPH < 10,000 mg/Kg TPH > = 1,000 mg/Kg	TPH < 100 mg/Kg
4	0	4	2	0
BN + 15 USEPA 8270	—	1	—	—
VO + 10 USEPA 8240	—	—	1	—

Table 71 summarizes the TPH, total VOC, total BN, and TOC concentrations and **Table 72** presents the specific VOC and BN results for samples collected at this AOC.

4.2.12.3 AOC-34: Former Soil Boring #SB-25

AOC-34, located within AOC-33, contains soil boring SB-25.

A total of five soil samples were collected and analyzed for TPH by USEPA Method 418.1.

Figure 31 presents the soil sample locations, sample depths, and the soil sample analytical results. The following table summarizes the distribution of TPH results and samples that required additional analysis.

AOC-34				
Total Samples	TPH > = 10,000 mg/Kg	TPH < 10,000 mg/Kg TPH > = 100 mg/Kg	TPH < 10,000 mg/Kg TPH > = 1,000 mg/Kg	TPH < 100 mg/Kg
5	0	4	4	1
BN + 15 USEPA 8270	—	1	—	—
VO + 10 USEPA 8240	—	—	1	—

Table 73 summarizes the TPH, total VOC, total BN, and TOC concentrations and **Table 74** presents the specific VOC and BN results for samples collected at this AOC.

4.2.12.4 Results

As indicated on **Figure 31**, of the 27 soil samples collected at this AOC group, none of the samples exceeded 10,000 mg/Kg of TOC.

AOC-32

None of the samples pertaining to this AOC exceeded 10,000 mg/Kg. Therefore, no further investigation or remediation activities are proposed for this AOC.

AOC-33

None of the samples pertaining to this AOC exceeded 10,000 mg/Kg. Therefore, no further investigation or remediation activities are proposed for this AOC.

AOC-34

None of the samples pertaining to this AOC exceeded 10,000 mg/Kg. Therefore, no further investigation or remediation activities are proposed for this AOC.

4.2.12.5 Proposed Actions

No samples pertaining to AOCs 32, 33, and 34 exceeded 10,000 mg/Kg. Therefore, no remedial action is proposed for AOCs 32, 33, and 34.

4.2.13 AOC-7: AST Area #2

AOC-7, located east of AOC-1 and AOC-2, contained 2 former ASTs, number 91 and 92, which had been removed prior to 1986. A total of two soil samples were to be collected. However, during the performance of the Phase V Investigation, NJTA construction activities included the installation of a structural highway support trestle at this location. The NJTA activities have permanently prevented access to this AOC. Therefore, no samples were collected at this location.

ASHLAND CHEMICAL COMPANY

Division of Ashland Oil, Inc.

NEGOTIABLE

Date: 1-12-78

Shipper's Number:

CONSIGNED TO

SCIENTIFIC CHEMICAL COMPANY
216 PATERSON PLANK ROAD
CARLSTADT, NEW JERSEY

Mail or Street Address of Consignee for purpose of identification only

ROUTE: THEIR TRUCK

DELIVERING CARRIER

CAR OR VEHICLE INITIAL AND NO

QUANTITY	HM	DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	*WEIGHT (Subject to Correction)	CLASS OR RATE	CHECK COLUMN
12 DRS	X	RESIN SOLUTION FLAMMABLE WASTE MATERIAL	GROSS 5370		
			TARE -1440		
			NET 3930		
		Delay			
		TIME IN			
		TIME OUT			
		CONSIGNEE PLACARDED WITH NUMBER 4 PLACARDS			

THIS MATERIAL IS CONSIGNED TO

SCIENTIFIC CHEMICAL CO 4100 WILSON AVENUE NEWARK, NJ FOR DISPOSAL

SIGNED BY

SCIENTIFIC CHEMICAL CO

IN THE EVENT OF ANY EMERGENCY CONCERNING THE PRODUCT IN THIS [illegible] CALL COLLECT [illegible] OR NIGHT

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges

ASHLAND CHEMICAL COMPANY

[Signature]

(Signature of Consignor)

If charges are to be Prepaid, type here "Prepaid"

COLLECT

Received $ _____ to apply in prepayment of the charges on the property described hereon

Agent or Cashier

Per _____
(The signature here acknowledges only the amount prepaid.)

Charges advanced

$ _____

"The fibre boxes or sacks used for this shipment conform to requirements of Rule 5-40 and 41 of Consolidated Freight Classification"

The description and weight indicated on this bill of lading are correct subject to verification by the APPROPRIATE WEIGHING AND INSPECTION BUREAU according to agreement

"If the shipment moves between two points by carrier by water, the law requires that the bill of lading shall state whether it is carrier's or shipper's weight." Note—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ _____ per _____

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation, according to the applicable regulations of the Department of Transportation.

Not a bill of lading when moved in a vehicle operated by shipper or owner of property, but merely a receipt for product or merchandise.

Carrier certifies that the cargo herein described in this shipment is a proper commodity for transportation of this commodity.

Signature

ASHLAND CHEMICAL COMPANY, SHIPPER

PER _____

Permanent post office address of shipper: P.O. BOX 2219, COLUMBUS, OHIO 43216

0010371

842600378

ASHLAND CHEMICAL COMPANY

(NOT TRANSIT SHORT FORM)

SHIPPING ORDER COPY

Division and Unit

THIS TRUCK

Carrier

Date

1-17-78

Shipper's Number

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Shipping Order the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property, over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back hereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

CONSIGNED TO

SCIENTIFIC CHEMICAL COMPANY
216 PATTERSON PLANK RD
CARLSTADT, NEW JERSEY

Mail or Street Address of Consignee for purpose of identification only

ROUTE THEIR TRUCK

DELIVERING CARRIER

CAR OR VEHICLE INITIAL AND NO

Subject to Section 7 of conditions of shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement

The carrier shall not make delivery of this shipment without payment of the freight and other lawful charges.

ASHLAND CHEMICAL COMPANY

(Signature of Consignor)

If charges are to be Prepaid, write here "Prepaid"

COLLECT

QUANTITY	HM	DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	WEIGHT (Subject to Correction)	CLASS OR RATE	CHECK COLUMN
10 DRS	X	RESIN SOLUTION FLAMABLE LIQUID WASTE MATERIAL GROSS	50800		
		TARE	36100		
		NET	14700		
		TIME IN 1:30 - 3:30			
		TIME OUT 3:00			
		CONTAINER PACKED WITH INERT FLAMMABLE			

THIS WASTE MATERIAL IS CONSIGNED TO

SCIENTIFIC CHEMICAL 411 WILSON AVENUE NEWARK, NJ FOR DISPOSAL

SIGNED BY

SCIENTIFIC CHEMICAL CO

92

IN THE EVENT OF ANY EMERGENCY CONCERNING THE PRODUCT IN THIS SHIPMENT, CALL TOLL-FREE NUMBER 800 424 9300, DAY OR NIGHT

Received $ _____ to apply in prepayment of the charges on the property described hereon.

Agent or Cashier

Per _____
(The signature here acknowledges only the amount prepaid.)

Charges advanced:

$ _____

"The fibre boxes or sacks used for this shipment conform to requirements of Rule 5-41-41 of Consolidated Freight Classification."

The description and weight in the box or bill of lading are correct subject to verification by the APPROPRIATE WEIGHING AND INSPECTION BUREAU according to agreement.

"If the shipment moves between two points by carrier by water, the law requires that the bill of lading shall state whether it is 'carriers or shippers weight.' Note—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ _____ per _____

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Not a bill of lading when issued by a water carrier by shipper or owner of product, but merely a receipt for property described herein.

Carrier certifies that the carrier has received this shipment in a proper condition for transportation of the commodity.

ASHLAND CHEMICAL COMPANY, SHIPPER

PER _____

Permanent post office address of shipper P O BOX 2219 COLUMBUS OHIO 43216

842600379

0010974

[illegible]
[illegible], NJ
THEIR TRUCK

Date
8/1/78

Shipper's Number

ASHLAND CHEMICAL COMPANY

(Non-Negotiable Short Form)
SHIPPING ORDER (COPY)

[boilerplate terms of bill of lading]

CONSIGNED TO

SCIENTIFIC CHEMICAL COMPANY
216 PATTERSON PLANK RD
CARLSTADT, NJ

Mail or Street Address of Consignee for purpose of identification only

ROUTE
THEIR TRUCK

DELIVERING CARRIER

CAR OR VEHICLE INITIAL AND NO

QUANTITY	HM	DESCRIPTION OF ARTICLES SPECIAL MARKS AND EXCEPTIONS	WEIGHT (Subject to Correction)	CLASS OR RATE	CHECK COLUMN
78 DRS	X	RESIN SOLUTION FLAMMABLE LIQUID WASTE MATERIAL GROSS	52090		
		TARE	26730		
		NET	25360		

TIME IN 2[illegible]

TIME OUT 4[illegible]

CONTAINER PLACARDED WITH
NUMBER 4 FLAMMABLE

THIS WASTE MATERIAL IS CONSIGNED TO SCIENTIFIC CHEMICAL
411 WILSON AVENUE NEWARK, NEW JERSEY

SIGNED BY [signature]
SCIENTIFIC CHEMICAL COMPANY

IN THE EVENT OF ANY EMERGENCY CONCERNING THE PRODUCT IN THIS SHIPMENT, CALL TOLL FREE NUMBER 800 424 9300, DAY OR NIGHT

Subject to Section 7 of conditions of this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:

The carrier shall not make delivery of this shipment without payment of the prepaid and all other lawful charges.

ASHLAND CHEMICAL COMPANY
[signature]
(Signature of Consignor)

If charges are to be Prepaid write here "Prepaid"

COLLECT

Received $ _____
to apply in prepayment of the charges on the property described hereon.

Agent or Cashier

Per _____
(The signature here acknowledges only the amount prepaid.)

Charges advanced:

$ _____

"The fibre boxes or sacks used for this shipment conform to requirements of Rule 40 and 41 of Consolidated Freight Classification"

The description and weight indicated on this bill of lading are correct subject to verification by the APPROPRIATE WEIGHING AND INSPECTION BUREAU according to agreement.

"If the shipment moves between two ports by a carrier by water the law requires that the bill of lading shall state whether it is 'carrier's or shipper's weight.' Note—Where the rate is dependent on value shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ _____ per _____

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

[signature]

Not a bill of lading when moved in a vehicle operated by shipper or owner of such property, merely a receipt for property in between points.

Carrier certifies that the carrier has a current permit for this shipment is a proper conveyance for the transportation of this commodity.

SHIPPER

ASHLAND CHEMICAL COMPANY, SHIPPER

PER _____

Correct post office address of shipper: P.O. BOX 2219 COLUMBUS OHIO 43216

842600380

0010977

ASHLAND CHEMICAL COMPANY

NON-NEGOTIABLE

Date

Shipper's Number

CONSIGNED TO

SCIENTIFIC CHEMICAL COMPANY
216 HACKENSACK PLANK RD
CARLSTADT, NEW JERSEY

Mail or Street Address of Consignee for purpose of identification only

ROUTE XXXX THEIR TRUCK

DELIVERING CARRIER

CAR OR VEHICLE INITIAL AND NO

QUANTITY	HM	DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	WEIGHT (Subject to Correction)	CLASS OR RATE	CHECK COLUMN
1 DRS	X	RESIN SOLUTION FLAMMABLE LIQUID WASTE MATERIAL	GROSS TARE NET		

TARE IN
TARE OUT

CONTAINER PURCHASED WITH
RESIN & FLAMMABLE

THIS WASTE MATERIAL IS CONSIGNED TO SCIENTIFIC CHEMICAL ... AVENUE NEWARK, NJ

SIGNED BY

SCIENTIFIC CHEMICAL CO

IN THE EVENT OF ANY EMERGENCY CONCERNING THE PRODUCT IN THIS SHIPMENT, CALL TOLL-FREE NUMBER 800 424 9300, DAY OR NIGHT.

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges

ASHLAND CHEMICAL COMPANY

(Signature of Consignor)

If charges are to be Prepaid write here "Prepaid"

collect

Received $ _____ to apply in prepayment of the charges on property described hereon

Agent or Cashier

Per _____
(The signature here acknowledges only amount prepaid)

Charges advanced

$ _____

"The fibre boxes or sacks used for this shipment conform to requirements of Rule 5 of 41 of Consolidated Freight Classification

The description and weight indicated on bill of lading are correct subject to verification by the APPROPRIATE WEIGHING AND INSPECTION BUREAU according to agreement

"If the shipment moves between two points by carrier by water the law requires that the bill of lading shall state whether it is 'carrier's' or 'shipper's weight.' Note—Where the rate is dependent on value shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ _____ per _____

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation, according to the applicable regulations of the Department of Transportation.

Not a bill of lading when moved in a vehicle operated by shipper or owner of vehicle, but merely a receipt for property described herein.

Carrier certifies that the carrier named on this shipment is a motor carrier engaged in transportation of this commodity.

ASHLAND CHEMICAL COMPANY, SHIPPER

PER _____

Permanent post office address of shipper P.O. BOX 2219 COLUMBUS, OHIO 43216

842600381

0010879

ASHLAND CHEMICAL COMPANY

(Non-Negotiable) SHIPPER'S COPY

SHIPPER'S COPY

Date 11/1/78

Shipper's Number

CONSIGNED TO
SCIENTIFIC CHEMICAL COMPANY
216 PATTERSON PLANK ROAD
CARLSTADT, NEW JERSEY

Mail or Street Address of Consignee for purpose of Identification only

ROUTE THEIR TRUCK

DELIVERING CARRIER

CAR OR VEHICLE INITIAL AND NO

QUANTITY	HM	DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	WEIGHT (Subject to Correction)	CLASS OR RATE	CHECK COLUMN
10 DRS	X	RESIN SOLUTION FLAMMABLE LIQUID WASTE MATERIAL GROSS	18140		
		TARE	37000		
		NET	31500		
		TIME IN 1:30	10,40		
			230		
		TIME OUT 2:30			

CONTAINER PLACARDED WITH
NUMBER 4 FLAMMABLE LIQUID
DATE
DOT
SIGNED BY

SCIENTIFIC CHEMICAL CO 411 WILSON AVENUE NEWARK, NJ FOR DISPOSAL

SIGNED BY
SCIENTIFIC CHEMICAL CO

IN THE EVENT OF ANY EMERGENCY CONCERNING THE PRODUCT IN THIS SHIPMENT, CALL TOLL-FREE NUMBER 800 424 9300, DAY OR NIGHT.

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:

The carrier shall not make delivery of this shipment without payment of the freight and other lawful charges.

ASHLAND CHEMICAL COMPANY

(Signature of Consignor)

If charges are to be Prepaid, write here "Prepaid"

COLLECT

Received $ _____ to apply in prepayment of the charges on the property described hereon

Agent or Cashier

Per _____
(The signature here acknowledges only the amount prepaid.)

Charges advanced

$ _____

"The fibre boxes or sacks used for this shipment conform to requirements of Rule 41 of Consolidated Freight Classification"

The description and weight indicated on this bill of lading are correct subject to verification by the APPROPRIATE WEIGHING AND INSPECTION BUREAU according to agreement.

"If the shipment moves between two ports by a carrier by water, the law requires that the bill

Load _____ From _____

Gross 18840 lbs To _____

Tare 27000 lbs Price _____

Net 31500 lbs Amt. _____

On _____ Off _____

Fairbanks Cat. 08452 (5351A) Weighter

Printed in U.S.A.

ASHLAND CHEMICAL COMPANY, SHIPPER

PER _____

Shipment not picked up address please call P O BOX 2219 COLUMBUS OHIO 43216

842600382

MD10981

ASHLAND CHEMICAL COMPANY

Date 31.4.78

Shipper's Number

CONSIGNED TO

SCIENTIFIC CHEMICAL COMPANY
216 PATTERSON PLANK RD
CARLSTADT, NEW JERSEY

Mail or Street Address of Consignee for purpose of identification only

1 1/4 hrs

ROUTE THEIR TRUCK

DELIVERING CARRIER

CAR OR VEHICLE INITIAL AND NO

Subject to Section 7 of conditions shipment is to be delivered to the con without recourse on the consignor the signor shall sign the following statement

The carrier shall not make delivery shipment without payment of the gr other lawful charges

ASHLAND CHEMICAL COMPA

(Signature of Cons gnor

If charges are to be Prepaid Collect

COLLECT

QUANTITY	HM	DESCRIPTION OF ARTICLES SPECIAL MARKS AND EXCEPTIONS	WEIGHT (Subject to Correction)	CLASS OR RATE	CHECK COLUMN
18	DRS X	RESIN SOLUTION FLAMMABLE LIQUID WASTE MATERIAL GROSS			
		TARE	2650		
		NET			

TIME IN 2 45

TIME OUT 5 20

CONTAINER PLACARDED WITH
NUMBER 4 FLAMMABLE

THIS WASTE MATERIAL IS CONSIGNED TO SCIENTIFIC CHEMICAL
411 WELSON AVENUE NEWARK, NEW JERSEY

SIGNED BY
SCIENTIFIC CHEMICAL COMPANY

IN THE EVENT OF ANY EMERGENCY
CONCERNING THE PRODUCT IN THIS
SHIPMENT, CALL TOLL-FREE NUMBER
800 424 9300, DAY OR NIGHT.

Received $ _____
to apply in prepayment of the charges
properly described hereon

Agent or Ca

Per _____
(The signature here acknowledges
amount prepaid.)

Charges advanced

$ _____

The fibre boxes or sacks used for th
ment conform to requirements of Rule
41 of Consolidated Freight Classifica

The description and weight are stated
bill of lading are correct subject to
by the APPROPRIATE WEIGHING A
SPECTION BUREAU according to app

If the shipment moves between two po
carrier by water, the law requires that
lading shall state whether it is "car
shipper's weight." Note—Where the
dependent on value, shippers are req
state specifically in writing the ag
declared value of the property. The ag
declared value of the property is hereb
fically stated by the shipper to be not

$ _____ per _____

This is to certify that the above-named
are properly classified, described, p
marked and labeled, and are in
condition for transportation accordi
applicable regulations of the Depar
Transportation.

Not a bill of lading when prepaid
operated by shipper or agent, but
merely a receipt for property herein

Carrier certifies that the ge
this shipment is a motor
transportation of this commodity

ASHLAND CHEMICAL COMPANY, SHIPPER

PER _____

Return post office address of shipper: P O BOX 2219, COLUMBUS, OHIO 43216

842600383

0010982

ASHLAND CHEMICAL COMPANY

(Not Negotiable) SHORT FORM

MEMORANDUM

Date of Issue: 3/4/76

Shipper's Number

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Memorandum (Bill of Lading) the property described below, which the undersigned agrees to carry to its usual place of delivery at said destination, if on its own railroad or its own water line, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth in the Uniform Freight Classification in effect on the date hereof, if this is a rail or a rail-water shipment, or in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

CONSIGNED TO

SCIENTIFIC CHEMICAL COMPANY
216 PATERSON PLANK RD
CARLSTADT, NEW JERSEY

Mail or Street Address of Consignee for purpose of identification only

ROUTE TELER TRUCK

DELIVERING CARRIER

CAR OR VEHICLE INITIAL AND NO

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

ASHLAND CHEMICAL COMPANY

(Signature of Consignor)

If charges are to be Prepaid type here "Prepaid"

COLLECT

QUANTITY	HM	DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	WEIGHT (Subject to Correction)	CLASS OR RATE	CHECK COLUMN
8 DRS X		RESIN SOLUTION FLAMMABLE LIQUID WASTE MATERIAL			
		GROSS			
		TARE	2620		
		NET			

TIME IN 2:45

TIME OUT 3:20

CONTAINER PLACARDED WITH NUMBER 4 FLAMMABLE

THIS WASTE MATERIAL IS CONSIGNED TO SCIENTIFIC CHEMICAL 411 WILSON AVENUE NEWARK, NEW JERSEY

SIGNED BY

SCIENTIFIC CHEMICAL COMPANY

IN THE EVENT OF ANY EMERGENCY CONCERNING THE PRODUCT IN THIS SHIPMENT, CALL TOLL-FREE NUMBER 800 424 9300, DAY OR NIGHT.

Received $ _____ to apply in prepayment of the charges on the property described hereon.

Agent or Cashier

Per _____
(The signature here acknowledges only the amount prepaid.)

Charges advanced

$ _____

"The fibre boxes or sacks used for this shipment conform to requirements of Rule 5-41 and 41 of Consolidated Freight Classification."

The description and weight inscribed on this bill of lading are correct subject to verification by the APPROPRIATE WEIGHING AND INSPECTION BUREAU according to agreement.

If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." Note—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ _____ per _____

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation, according to the applicable regulations of the Department of Transportation.

Not a bill of lading when moved in a vehicle operated by shipper or owner of property. Is merely a receipt for product in behalf of owner.

Carrier certifies that the cargo tank specified in this shipment is a proper container for the transportation of this commodity.

SIGNATURE

ASHLAND CHEMICAL COMPANY, SHIPPER

[illegible] WILSON AVENUE NEWARK, NJ

AGENT

PER _____

Permanent post office address of shipper P.O. BOX 2219, COLUMBUS, OHIO 43216

842600384

0010383

400 DOUGLAS AVENUE
ELGIN, IL
THEIR TRUCK

ASHLAND CHEMICAL COMPANY

Division of Ashland Oil, Inc.

UNIFORM STRAIGHT BILL OF LADING
SHIPPING ORDER COPY

Shipper's Number

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own road or its own water line, otherwise to deliver to another carrier on the route to said destination. It is agreed, as to each carrier of all or any of said property over all or any portion of said route or delivery at destination and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

CONSIGNED TO

SCIENTIFIC CHEMICAL COMPANY
216 PATTERSON PLANK ROAD
CARLSTADT, NEW JERSEY

Mail or Street Address of Consignee for purpose of identification only

ROUTE THEIR TRUCK

DELIVERING CARRIER

CAR OR VEHICLE INITIAL AND NO

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

ASHLAND CHEMICAL COMPANY

(Signature of Consignor)

If charges are to be Prepaid, write here "Prepaid."

COLLECT

QUANTITY	HM	DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	WEIGHT (Subject to Correction)	CLASS OR RATE	CHECK COLUMN
1 DRS	X	RESIN SOLUTION FLAMMABLE LIQUID WASTER MATERIAL GROSS	49350		
		TARE	27520		
		NET	21830		

TIME IN 1:00
TIME OUT 1:15

2 - 51
B - 51
50

CONTAINER PLACARDED WITH
NUMBER 4 FLAMMABLE LIQUID
SIGNED BY- Robert Allen

THIS MATERIAL IS CONSIGNED TO SCIENTIFIC CHEM.CO 411WILSON AVENUE

FOR DISPOSAL SIGNED BY- Robert Allen

SCIENTIFIC CHEMICAL CO

IN THE EVENT OF ANY EMERGENCY

Received $ _____ to apply in prepayment of the charges on the property described hereon.

Agent or Cashier

Per _____
(The signature here acknowledges only the amount prepaid.)

Charges advanced

$ _____

"The fibre boxes or sacks used for this shipment conform to requirements of Rule 41 of Consolidated Freight Classification."

The description and weight indicated on this bill of lading are correct subject to verification by the APPROPRIATE WEIGHING AND INSPECTION BUREAU according to its tariff.

"If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is 'carrier's or shipper's weight.' Note—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ _____ per _____

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation, according to the applicable regulations of the Department of Transportation.

_____

_____

WEIGHED ON A FAIRBANKS SCALE
Date 4/24/78
Load Waste
From
Gross 49350 lbs
To
Tare 27520 lbs
Price
Net 21830 lbs
Amt.
Weigher

On _____ Off _____
Fairbanks Cat. 153452 (USSTA)

Printed in U.S.A.

ASHLAND CHEMICAL COMPANY, SHIPPER
400 DOUGLAS AVENUE

Permanent post office address of shipper P.O. BOX 2219.

8304

0010385

842600385

ASHLAND CHEMICAL COMPANY

SHIPPING ORDER COPY

3/7/78

CONSIGNED TO

SCIENTIFIC CHEMICAL COMPANY
216 PATTERSON PLANK ROAD
CARLSTADT, N J

Mail or Street Address of Consignee for purpose of identification only

ROUTE TEMR TRUCK

DELIVERING CARRIER

CAR OR VEHICLE INITIAL AND NO.

QUANTITY	HM	DESCRIPTION OF ARTICLES SPECIAL MARKS AND EXCEPTIONS	WEIGHT (Subject to Correction)	CLASS OR RATE	CHECK COLUMN
3 DRS	X	RESIN SOLUTION FLAMMABLE LIQUID WASTE MATERIAL GROSS	53810		
		TARE	26090		
		NET	27720		

TIME IN 3:15

TIME OUT 5:45

PLACARDED FLAMMABLE LIQUID
NUMBER 4 FLAMMABLE

SIGNED BY Robert Allen

THIS WASTE MATERIAL IS CONSIGNED TO

SCIENTIFIC CHEMICAL CO 411 WILSON AVENUE N EWARK NJ FOR RESDISPOSAL

SIGNED BY Robert Allen
SCIENTIFIC CHEMICAL CO

IN THE EVENT OF ANY EMERGENCY CONCERNING THE PRODUCT IN THIS SHIPMENT CALL [illegible] BEER

3-47
C-49

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges

ASHLAND CHEMICAL COMPANY

(Signature of Consignor)

If charges are to be Prepaid, write here "Prepaid"

COLLECT

Received $ _____ to apply in prepayment of the charges on the property described hereon.

Agent or Cashier

Per _____
(The signature here acknowledges only the amount prepaid.)

Charges advanced

$ _____

"The fibre boxes or sacks used for this shipment conform to requirements of Rule 41 or 41 of Consolidated Freight Classification"

The description and weight indicated on this bill of lading are correct subject to verification by the APPROPRIATE WEIGHING AND INSPECTION BUREAU according to agreement

"If this shipment moves between two points by carrier by water, the law requires that the bill of lading shall state whether it is 'carrier's or shipper's weight.' Note—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ _____ per _____

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation

Not a bill of lading when moved by a carrier operated by shipper or owner of the property, merely a receipt for property delivered

Carrier certifies that the [illegible] on the shipment is a proper description of the transportation of this commodity

ASHLAND CHEMICAL COMPANY, SHIPPER
200 ROBERTS AVENUE NEWARK, NJ

PER _____

Remit to post office address of Shipper P.O. BOX 2219 COLUMBUS, OHIO 43216

842600386

0010988

ASHLAND CHEMICAL COMPANY

Date: 3/9/88

Shipper's Number:

CONSIGNED TO SCIENTIFIC CHEMICAL PROCESSING
216 PATERSON PLANK RD
CARLSTADT, NEW JERSEY

Mail or Street Address of Consignee for purpose of identification only

THEIR TRUCK
ROUTE

DELIVERING CARRIER

CAR OR VEHICLE INITIAL AND NO

Subject to Section 7 of conditions, if shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:

The carrier shall not make delivery of this shipment without payment of the freight and other lawful charges.

ASHLAND CHEMICAL COMPANY

(Signature of Consignor)

If charges are to be Prepaid, write or stamp here, "Prepaid"

COLLECT

QUANTITY	HM	DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	WEIGHT (Subject to Correction)	CLASS OR RATE	CHECK COLUMN
48 DRS	X	RESIN SOLUTION FLAMABLE LIQUID WASTE MATERIAL			
		GROSS	47440		
		TARE	26280		
		NET	21160		

TIME IN 2[illegible]

TIME OUT 415

PLACARDED FLAMABLE LIQUID
NUMBER 4 FLAMABLE
SIGNED Robert Allen
THIS WASTE MATERIAL IS CONSIGNED TO

SCIENTIFIC CHEMICAL CO 411 WILSON AVENUE NEWARK, NJ FOR DISPOSAL

SIGNED BY Robert Allen

SCIENTIFIC CHEMICAL

Received $ _____ to apply in prepayment of the charges on the property described hereon.

Agent or Cashier

Per _____
(The signature here acknowledges only the amount prepaid.)

Charges advanced

$ _____

"The fibre boxes or sacks used for this shipment conform to the requirements of Rule 41 of Consolidated Freight Classification"

The description and weight in the above bill of lading are correct subject to verification by the APPROPRIATE WEIGHING AND INSPECTION BUREAU according to agreement.

"If the shipment moves between two ports by carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." Note—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ _____ per _____

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation, according to the applicable regulations of the Department of Transportation.

Not a bill of lading when moved on a straight bill of lading. When moved on an order bill of lading, it is merely a receipt for property described herein.

Carrier certifies that the carrier has used this shipment as a private carrier for the transportation of this commodity.

ASHLAND CHEMICAL COMPANY, SHIPPER
[illegible] JOHNS AVENUE, NEWARK, NJ
PER [signature]

PER _____

Form agent post office address of shipper P O BOX 2219, COLUMBUS OHIO 43216

0010990

842600387

ASHLAND CHEMICAL COMPANY

Date

3/27

Shipper's Number

CONSIGNED TO

SCIENTIFIC CHEMICAL COMPANY
916 PATTERSON PLANK ROAD
CARLSTADT, NJ

Mail or Street Address of Consignee for purpose of identification only

ROUTE

TRUCK
DELIVERING CARRIER

CAR OR VEHICLE INITIAL AND NO

QUANTITY	HM	DESCRIPTION OF ARTICLES SPECIAL MARKS AND EXCEPTIONS	WEIGHT (Subject to Correction)	CLASS OR RATE	CHECK COLUMN
X DRS	X	RESIN SOLUTION FLAMMABLE LIQUID WASTE MATERIAL	GROSS		
			TARE 342/0		
7 S L			NET		
		TIME IN 3 PM			
		TIME OUT	3-28 82		

CONTAINER PLACARDED WITH
NUMBER 4 FLAMMABLE LIQUID
SIGNED BY Robert J. Miller

THIS MATERIAL IS CONSIGNED TO
SCIENTIC CHEMICAL CO 411 WILSON AVENUE NEWARK, NEW JERSEY

FOR DISPOSAL SIGNED BY Robert J. Miller.

SCIENTIFIC CHEMICAL COMPANY

IN THE EVENT OF ANY EMERGENCY CONCERNING THE PRODUCT IN THIS SHIPMENT, CALL TOLL-FREE NUMBER 800-424-9300 DAY OR NIGHT

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges

ASHLAND CHEMICAL COMPANY

(Signature of Consignor)

If charges are to be Prepaid type here "Prepaid"

COLLECT

Received $ _____
to apply in prepayment of the charges on the property described hereon

Agent or Cashier

Per _____
(The signature here acknowledges only the amount prepaid.)

Charges advanced

$ _____

"The fibre boxes or sacks used for this shipment conform to requirements of Rule 41 of Consolidated Freight Classification"

The description and weight on the face of this bill of lading are correct subject to verification by the APPROPRIATE WEIGHING AND INSPECTION BUREAU according to law.

"If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is 'carrier's or shipper's weight.' Note—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ _____ per _____

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation, according to the applicable regulations of the Department of Transportation.

Per _____

Not a bill of lading when moved by a carrier operated by shipper or owner of property, but merely a receipt for property described herein.

Carrier certifies that the cargo covered by this shipment is a proper load for the transportation of this commodity.

Per _____

ASHLAND CHEMICAL COMPANY, SHIPPER
P.O. BOX 2219 COLUMBUS, OHIO

Per _____

Permanent post office address of shipper P O BOX 2219 COLUMBUS OHIO 43216

BOX

0010393

842600388

ASHLAND CHEMICAL COMPANY

SHIPPER'S COPY

28178

SIGNED TO

SCIENTIFIC CHEMICAL COMPANY
216 PATTERSON PLANK ROAD
CARLSTADT, NJ

Mail or Street Address of Consignee for purpose of identification only

ROUTE THEIR TRUCK

DELIVERING CARRIER

CAR OR VEHICLE INITIAL AND NO

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:

The carrier shall not make delivery of this shipment without payment of the property and all other lawful charges.

ASHLAND CHEMICAL COMPANY

(Signature of Consignor)

If charges are to be Prepaid write here "Prepaid"

COLLECT

Received $ _____ to apply in prepayment of the charges on the property described hereon.

Agent or Cashier

Per _____
(This signature here acknowledges only the amount prepaid.)

Charges advanced

$ _____

"The rate, tariff or rates used for this shipment conform to requirements of Rule 41 and 41 of Consolidated Freight Classification."

The description and weight indicated on this bill of lading are correct subject to verification by the APPROPRIATE WEIGHING AND INSPECTION BUREAU according to shipment.

"If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is 'carrier's or shipper's weight.' Note—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ _____ per _____

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation, according to the applicable regulations of the Department of Transportation.

QUANTITY	HM	DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	WEIGHT (Subject to Correction)	CLASS OR RATE	CHECK COLUMN
DRS	X	RESIN SOLUTION FLAMMABLE WASTE MATERIAL			
		GROSS	54630		
		TARE	36920		
		NET	17710		
		TIME IN 10:40 AM			
		TIME OUT 10:20 AM			
		CONTAINER PLACARDED WITH NUMBER 4 FLAMMABLE LIQUID	3138 C-131		
		THIS MATERIAL IS CONSIGNED TO SCIENTIFIC CHEMICAL CO 211 WILSON AVENUE NEWARK NJ FOR DISPOSAL			
		SIGNED BY _____ SCIENTIFIC CHEMICAL CO			
		IN THE EVENT OF ANY EMERGENCY CONCERNING THE PRODUCT IN THIS SHIPMENT, CALL TOLL FREE NUMBER 800 424 9300 DAY OR NIGHT			

WEIGHED ON A FAIRBANKS SCALE

Date 3/28/78

Load _____

From _____ To _____

Gross 54630 lbs Price _____

Tare 36920 lbs Amt _____

Net 17710 lbs

Weighed _____ Printed in U.S.A.

ASHLAND CHEMICAL COMPANY SHIPPER

Permanent post office address of shipper P O BOX 2219 COLUMBUS OHIO 43216

842600389

Tankers On _____ Off _____

Car Loads (Check if Sealed)

0010997

ASHLAND CHEMICAL COMPANY

4-5-78

CONSIGNED TO
SCIENTIFIC CHEMICAL CO
216 PATTERSON PLANK ROAD
CARLSTADT, NEW JERSEY

Mail or Street Address of Consignee for purpose of identification only

ROUTE THEIR TRUCK

DELIVERING CARRIER

CAR OR VEHICLE INITIAL AND NO

QUANTITY	HM	DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	WEIGHT (Subject to Correction)	CLASS OR RATE	CHECK COLUMN
7		DRS X RESIN SOLUTION FLAMABLE LIQUID	57870		
		WASTEK MATERIAL GROSS			
		TARE	29450		
		NET	28420		
		TIME IN 8:30 AM			
		TIME OUT 10:45 AM	15		
		CONTAINER PACKAGED WITH			
		NUMBER 4 FLAMABLE LIQUID			
		DATE 4/5/78			
		SIGNED BY [signature]			

THIS MATERIAL IS CONSIGNED TO SCIENTIFIC CHEMICAL 41 WILSON AVENUE NEWARK NJ FOR DISPOSAL

SIGNED BY [signature]

SCIENTIFIC CHEMICAL COMPANY

IN THE EVENT OF ANY EMERGENCY [illegible]

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:

The carrier shall not make delivery of this shipment without payment of the purchase price or otherwise give

ASHLAND CHEMICAL COMPANY

[signature]
(Signature of Consignor)

If charges are to be Prepaid write here "Prepaid"

COLLECT

Received $ _____ to apply in prepayment of the charges on the property described hereon.

Agent or Cashier

Per _____
(The signature here acknowledges only the amount prepaid.)

Charges advanced

$ _____

"The fare board of rates used to [illegible] shipment conforms to requirements of [illegible] 41 of Consolidated Freight Classification."

The description and weight indicated on this bill of lading are correct. Subject to verification by the APPROPRIATE WEIGHING AND INSPECTION BUREAU according to its [illegible]

"If the shipment moves between two points by carrier by water, the law requires that the bill of lading shall state whether it is 'carrier's or shipper's weight.' Note—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ _____ per _____

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

[signature]

WEIGHED ON FAIRBANKS SCALE

Read [signature] Date 4/5/78

From _____ To _____

Gross 57870 lbs

Tare 29450 lbs

Net 28420 lbs

[signature]

ASHLAND CHEMICAL COMPANY, CARRIER

[signature]

On _____ Off _____ Weather _____

Printed in U.S.A.

842600390 0010999

ASHLAND CHEMICAL COMPANY

5-2-78

A18401

CONSIGNED TO

SCIENTIFIC CHEMICAL COMPANY
216 WILSON PLANK ROAD
CARLSTADT, NEW JERSEY

Mail or Street Address of Consignee for purpose of identification only

ROUTE

TRUCK
DELIVERING CARRIER

CAR OR VEHICLE INITIAL AND NO.

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

ASHLAND CHEMICAL COMPANY

(Signature of Consignor)

If charges are to be Prepaid write here "Prepaid"

QUANTITY	HM	DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	WEIGHT (Subject to Correction)	CLASS OR RATE	CHECK COLUMN
6 DRS	X	RESIN SOLUTION FLAMABLE LIQUID WASTE MATERIAL	GROSS 56000		
			TARE 29030		
			NET 26970		

TIME IN 9:00

TIME OUT 11:00

CONTAINER PLACARDED WITH NUMBER 4 FLAMABLE LIQUID

DATE 5/2/78

SIGNED BY

THIS MATERIAL IS CONSIGNED TO SCIENTIFIC CHEMICAL 411 WILSON AVE NEWARK, NJ

FOR DISPOSAL

SIGNED BY

SCIENTIFIC CHEMICAL COMPANY

IN THE EVENT OF ANY EMERGENCY CONCERNING THE PRODUCT IN THIS SHIPMENT, CALL TOLL FREE 800 424 9300

WEIGHED ON A FAIRBANKS SCALE

Date 5/2/78

Load

From

Gross 56 000 lbs

Tare 29 030 lbs

Net 26 970 lbs

To

Time In

Time Out

Received $ _____ to apply in prepayment of the charges on the property described hereon

Agent or Cashier

Per _____

(This signature here acknowledges only the amount prepaid)

Charges advanced

$ _____

The fibre boxes or sacks used for this shipment conform to requirements of Rule 41 of Consolidated Freight Classification

The description and weight in this bill of lading are correct subject to verification by the APPROPRIATE WEIGHING AND INSPECTION BUREAU according to agreement

If the shipment moves between two ports by carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." Note—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ _____ per _____

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation, according to the applicable regulations of the Department of Transportation

0011601

842600391

ASHLAND CHEMICAL COMPANY

SHIPPING ORDER COPY

4-18-73

Dept's Number

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

ASHLAND CHEMICAL COMPANY

(Signature of Consignor)

CONSIGNED TO

Mail or Street Address of Consignee for purpose of identification only

SCIENTIFIC CHEMICAL
216 PATTERSON PLANK ROAD
CARLSTADT, N.J.

ROUTE THEIR TRUCK

DELIVERING CARRIER

CAR OR VEHICLE INITIAL AND NO.

If charges are to be Prepaid write here "Prepaid"

COLLECT

QUANTITY	HM	DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	WEIGHT (Subject to Correction)	CLASS OR RATE	CHECK COLUMN
2 DRS.	X	RESIN SOLUTION FLAMABLE LIQUID WASTE MATERIAL GROSS 55880 NET 28940 TARE 26940			
		TIME IN TIME OUT			
		CONTAINER PLACARDED WITH NUMBER 4 FLAMABLE LIQUID PLACARDS DATE SIGNED BY			
		SEND (1) ONE COPY OF THE BILL OF LADING TO ORIGINAL AND (1) ONE COPY OF THE INVOICE TO ASHLAND CHEMICAL, RESINS AND PLASTICS DIVISION, AND FORENSUS AVENUE, DUBLIN, [illegible]			
		THIS MATERIAL IS CONSIGNED TO SCIENTIFIC CHEMICAL 411 WILSON AVE. NEWARK, N.J. FOR DISPOSAL SIGNED [signature]			
		IN THE EVENT OF ANY EMERGENCY CONCERNING THE PRODUCT IN THIS SHIPMENT, CALL TOLL FREE NUMBER 800 424 9300, DAY OR NIGHT.			

Received $ _____ to apply in prepayment of the charges on the property described hereon.

Agent or Cashier

Per _____
(The signature here acknowledges only the amount prepaid.)

Charges advanced

$ _____

"The fibre boxes or sacks used for this shipment conform to requirements of Rule 41 and 41 of Consolidated Freight Classification."

The description and weight indicated on this bill of lading are correct subject to verification by the APPROPRIATE WEIGHING AND INSPECTION BUREAU according to agreement.

"If the shipment moves between two ports by a carrier by water the law requires that the bill of lading shall state whether it is 'carrier's or shipper's weight.' Note—Where the rate is dependent on value shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding $ _____ per _____."

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

[signature]

Not a bill of lading when moved in a vehicle operated by the owner of the property but merely a receipt for property to be delivered.

Carrier certifies that the cargo tank used for this shipment is a shipper's tank within the meaning of this exemption.

ASHLAND CHEMICAL COMPANY, SHIPPER

0011005

842600392

ASHLAND CHEMICAL COMPANY

BILL OF LADING

RIER NAME: Carlisle Lift
IVERING CARRIER:
PPED BY: ASHLAND CHEMICAL COMPANY
DIVISION OF ASHLAND OIL, INC
TE: CUSTOMER PICK UP
PPED FROM: NEWARK NJ
TOMER ORDER NO: VERBAL

CARRIER'S NO:

PAGE :
COPY NO

ASHLAND ORDER NO: 014176-009090-(

CAR NO: DATE SHIPPED 1/11/88
ORG SPLC: 191600 DEST SPLC: 191600

ashland chemical

---------CONSIGNED TO----------
SCIENTIFIC CHEMICAL PROCESSING
-INCORPORATED
411 WILSON AVENUE
NEWARK NJ 07105

COLLECT

Gravity .920
BTU 120,560

O OF CKAGES	HM	KIND OF PACKAGE, DESCRIPTION OF ARTICLES SPECIAL MARKS, & EXCEPTIONS	GROSS WEIGHT (SUB TO CORR)	FREIGHT RATE
1 DR	X	FLAMMABLE LIQUID NOS PLACARDED FLAMMABLE BULK CHEMICALS NOIBN 032976 , 1285 PREMIX	41700 net weight	

Delay 8:30 10:30

EMERGENCY CONCERNING PRODUCT IN THIS SHIPMENT CALL TOLL FREE NO
-424-9300 DAY OR NIGHT.(APPLICABLE TO HAZARDOUS MATERIALS)

001101

Robert Allen

THIS SHIPMENT IS PROPERLY DESCRIBED

842600393

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Shipping Order

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

(Signature of Consignee)

ASHLAND CHEMICAL COMPANY

BILL OF LADING

RRIER NAME: CPC

CARRIER'S NO:

PAGE 1

LIVERING CARRIER:

COPY NO 1

IPPED BY: ASHLAND CHEMICAL COMPANY
DIVISION OF ASHLAND OIL, INC

ASHLAND ORDER NO: 014176-009190-C

UTE: CUSTOMER PICK UP

CAR NO:

DATE SHIPPED 12/2/78

IPPED FROM: NEWARK NJ

ORG SPLC: 191600

DEST SPLC: 191600

STOMER ORDER NO: VERBAL

----------CONSIGNED TO----------

SCIENTIFIC CHEMICAL PROCESSING
-INCORPORATED
411 WILSON AVENUE
NEWARK NJ 07105

COLLECT

NO OF PACKAGES	HM	KIND OF PACKAGE, DESCRIPTION OF ARTICLES SPECIAL MARKS, & EXCEPTIONS	GROSS WEIGHT (SUB TO CORR)	FREIGHT RATE
4/	X	FLAMMABLE LIQUID NOS PLACARDED FLAMMABLE BULK CHEMICALS NOIBN 032976 , 1285 PREMIX	40980.	

CONTAINER PLACARDED WITH
NUMBER 4 TYPE FLAMMABLE PLACARDS
DATE 12-22-78
12

IN EMERGENCY CONCERNING PRODUCT IN THIS SHIPMENT CALL TOLL FREE NO
800-424-9300 DAY OR NIGHT (APPLICABLE TO HAZARDOUS MATERIALS)

0011012

SHIPPER ASHLAND CHEMICAL COMPANY

PER

Shipper's post office address: P O BOX 2219 COLUMBUS OHIO 43216

TRAILER CARRIER Robert Allen

AGENT

PER

Carrier certifies that the cargo was supplied for the shipment as shown

THIS SHIPMENT IS COMPLETELY DESCRIBED

842600394

SHIPPING ORDER

Must be legibly filled in on this or Indicative Permit or on Carbon and retained by the agent

THEIR TRUCK — Name of Carrier

(Subject to the classifications and tariffs in effect on the date of the issue of this Shipping Order)

NEWARK, NJ DEC 15 19 78 From Spencer Kellogg Division of Textron Inc.

(property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is agreed, as to each carrier of all or any said property, over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

(Mail or street address of consignee - for purposes of notification only.)

SIGNED TO SCIENTIFIC CHEMICAL . 411 WILSON AVENUE

DESTINATION NEWARK, | STATE OF NJ | COUNTY OF

DELIVERY ADDRESS (To be filled in only when shipper desires and governing tariffs provide for delivery thereat.)

ROUTE THEIR TRUCK

DELIVERING CARRIER | CAR INITIAL | CAR NO.

No. Pkgs.	Description of Articles, Special Marks and Exceptions	*WEIGHT (Subject to Correction)	Class or Rate	CHECK COLUMN
TANK WAGON	RESIN SOLUTION FLAMMABLE LIQUID BULK A 1285 PREMIX GROSS	63940		
	TARE	25540		
	NET	38400		
	NET			
	CONTAINER PLACARDED WITH NO 4 TYPE FLAMMABLE LIQUID PLACARDS			

This is to certify that the above-named articles are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

IN THE EVENT OF ANY EMERGENCY CONCERNING THE PRODUCT IN THIS SHIPMENT, CALL TOLL FREE NUMBER 800.424.9300. DAY OR NIGHT.

The shipment named herein, between points by a carrier by water, the law requires that the bill of lading shall state whether it is carrier's or shipper's weight, and the transportation according to the agreed or declared value of the property (The agreed or declared value of the property is hereby specifically stated to be not exceeding

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignor without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

Fred B

(Signature of Consignor)

If charges are to be prepaid, write or stamp here "To be Prepaid."

COLLECT

†The description and weight indicated on the bill of lading are correct.

Subject to verification by the Weighing and Inspection Bureau having jurisdiction according to agreement.

"Shipper's imprint in lieu of stamp, not a part of bill of lading approved by the Interstate Commerce Commission."

*Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. (The agreed or declared value of the property is hereby specifically stated to be not exceeding

PER

AGENT

SPENCER KELLOGG DIVISION OF TEXTRON INC. Shipper

Per

→ Agent must detach and retain this Shipping Order and must sign the Original Bill of Lading

Permanent post office address of shipper, 400 DOREMUS AVENUE NEWARK, NJ 07105

CLAIM NO. AMOUNT AS PER R.R. NO. DATE ATTACHED BY

Inbound Shipping Charge — Inbound Original Paid Switch Bill

SPENCER KELLOGG DIVISION OF TEXTRON INC. Per

TRANSIT ORD NO.	COMM	ORIGIN POINT	DATE	BILLED FROM	ROAD	DATE WAYBILL NO	DATE FRT. BILL NO.	CAR INITIAL AND NUMBER	WEIGHT APPLIED	RATES THRU	RATES PAID IN	RATES
						12		8 PN				

Tariff Reference

Cr. Bol. Due Transit House

Shipper's Certificate

This is to certify that the tonnage listed under inbound is applicable to the commodity forwarded as provided in Tariff No ICC No.

Transit ☐ Prop Rate ☐ Transit Operation

SPENCER KELLOGG DIVISION OF TEXTRON INC.

842600395 0011014

SHIPPING ORDER

Must be legibly filled in in ink, in indelible Pencil, or in Carbon and returned by the agent

CUST PICK UP — Name of Carrier

subject to the classifications and tariffs in effect on the date of the issue of this Shipping Order

NEWARK, NJ DEC 12 19__ From Spencer Kellogg Division of Textron Inc.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this ship and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns

(Mail or street address of consignor - for purposes of notification only.)

SIGNED TO

SCIENTIFIC CHEMICAL & PROCESSING INC 411 WILSON AVENUE

DESTINATION	STATE OF	COUNTY OF
NEWARK,	NEW JERSEY	

DELIVERY ADDRESS (To be filled in only when shipper desires and governing tariffs provide for delivery thereat.)

ROUTE

CUST PICK UP

DELIVERING CARRIER — CAR INITIAL — CAR NO.

No. Pkgs	Description of Articles, Special Marks and Exceptions	*WEIGHT (Subject to Correction)	Class or Rate	CHECK COLUMN
TANK				
	WAGON RESIN SOLUTION FLAMMBLE LIQUID			
	RESIN BULK			
	PREMIX 1285 NET WEIGH			
	CONTAINER PLACARDED WITH			
	NUMBER 4 TYPE FLAMABLE LIQUID			
	"This is to certify that the above-named articles are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation, according to the applicable regulations of the Department of Transportation."			

Subject to Section 7 of conditions if this shipment is to be delivered to the consignor without recourse on the consignor, the consignor shall sign the following statement

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges

(Signature of Consignor.)

If charges are to be prepaid write or stamp here "To be Prepaid."

COLLECT

†The description and weight indicated on the bill of lading are correct

Subject to verification by the weighing and inspection Bureau having jurisdiction according to agreement

"Shipper's imprint in lieu of stamp, not a part of bill of lading approved by the Interstate Commerce Commission."

NOTE-Where the rate is dependent on value shippers are required specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ PER _____

*If shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight."

IN THE EVENT OF ANY EMERGENCY CONCERNING THE PRODUCT IN THIS SHIPMENT, CALL TOLL-FREE NUMBER 800-424-9300, DAY OR NIGHT.

SPENCER KELLOGG DIVISION OF TEXTRON INC Shipper — AGENT

→ Agent must detach and retain this Shipping Order and must sign the Original Bill of Lading

Permanent post office address of shipper, 400 DOREMUS AVENUE NEWARK, NJ 07105

CLAIM NO. _____ AMOUNT _____ AS PER _____ R.R. NO. _____ DATE _____ ATTACHED BY _____

and Inbound Shipping Charge — Inbound Original Paid Switch Bill

SPENCER KELLOGG DIVISION OF TEXTRON INC. Per

TRANSIT ORD NO	COMM	ORIGIN POINT	DATE	BILLED FROM	ROAD	DATE WAYBILL NO	DATE FRT BILL NO	CAR INITIAL AND NUMBER	WEIGHT APPLIED	RATES THRU	RATES PAID IN	RATES BAL.

Tariff Reference — Cr. Bal. Due Transit House

Shipper's Certificate

This is to certify that the tonnage listed under inbound is applicable to the commodity forwarded as provided in _____ Tariff No. _____ ICC No. _____

Transit ☐ Prop Rate ☐ Transit Operation _____

SPENCER KELLOGG DIVISION OF TEXTRON INC

842600396 0011016

TO
Ms. Sharon Hupf
Spencer Kellogg Div of Textron Inc.
P.O. Box 807
Buffalo, N.Y. 14240 800-828-7242

FROM
Scientific Chemical Processing Inc
411 Wilson Ave.
Newark, N.J. 07105

SUBJECT

DATE 5 / 29 / 79

MESSAGE

Dear Ms. Hupf,

Enclosed is a copy of our Invoice 12-30. As I stated during our conversation today, Ashland Chemical has paid $200.00. Christie of Ashland (614) 889-3685 said that Spencer Kellogg is responsible for paying the balance. Anything you could do to expedite payment will be appreciated.

SIGNED Jean Brown

REPLY

SIGNED

DATE / /

Rediforms 45 472

SEND PARTS 1 AND 3 WITH CARBON INTACT - PART 3 WILL BE RETURNED WITH REPLY.

DETACH AND FILE FOR FOLLOW-UP

0011017

842600397

FROM

ASHLAND CHEMICAL COMPANY
400 DORENUS AVENUE
NEWARK, NJ
CUST PICK UP

Carrier

Date

12-8-78

Shipper's Number

Ashland.

ASHLAND CHEMICAL COMPANY
Division of Ashland Oil Inc

STRAIGHT BILL OF LADING

(Non Transit) SHORT FORM

SHIPPING ORDER COPY

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading the property described below in apparent good order except as noted (contents and condition of contents of packages unknown) marked consigned and destined as indicated below which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any part of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

CONSIGNED TO

SCIENTIFIC CHEMICAL
411 WILSON AVENUE
NEWARK, NEW JERSEY

Mail or Street Address of Consignee for purpose of identification only

ROUTE

CUST PICK UP

DELIVERING CARRIER

CAR OR VEHICLE INITIAL AND NO.

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges

ASHLAND CHEMICAL COMPANY

(Signature of Consignor)

If charges are to be Prepaid type here "Prepaid"

COLLECT

QUANTITY	HM	DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	*WEIGHT (Subject to Correction)	CLASS OR RATE	CHECK COLUMN
DRS		RESIN SOLUTION	6934 U 2893 U 4041 U		

30

A-Day 1150 1730

IN THE EVENT OF ANY EMERGENCY CONCERNING THE PRODUCT(S) OF THIS SHIPMENT CALL 800-424-9300

Received $ _____ to apply in prepayment of the charges on the property described hereon

Agent or Cashier

Per: _____
(The signature here acknowledges only the amount prepaid.)

Charges advanced

$ _____

*The fibre boxes or sacks used for this shipment conform to requirements of Rule 5-40 and 41 of Consolidated Freight Classification

The description and weight indicated on this bill of lading are correct subject to verification by the APPROPRIATE WEIGHING AND INSPECTION BUREAU according to agreement.

*If the shipment moves between two ports by a carrier by water the law requires that the bill of lading shall state whether it is carrier's or shipper's weight. Note—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ _____ per _____

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Not a bill of lading when moved in a vehicle operated by shipper or owner of said vehicle

WEIGHED ON A FAIRBANKS SCALE

Load 43808 Date 12/8/78

From _____

Gross 6934 lbs To 411 Wilson

Tare 2893 lbs Price _____

Net 4041 lbs Amt. _____ 842600398

_____ On _____ Off _____ Weigher

Fairbanks Cat. 083452 (SJ35FA)

Printed in U.S.A.

ASHLAND CHEMICAL COMPANY, SHIPPER

400 DORENUS AVENUE NEWARK, NJ

Permanent post office address of shipper P O BOX 2219, COLUMBUS, OHIO 43216

1304

400 DORMUS AVENUE
NEWARK, NJ

CUST PICK UP Carrier

Date
12-8-78

Shipper's Number

ASHLAND CHEMICAL COMPANY
Division of Ashland Oil Inc

(Non Transit) SHORT FORM
SHIPPING ORDER COPY

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading the property described below in apparent good order except as noted (contents and condition of contents of packages unknown) marked consigned and destined as indicated below which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination if on its route otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any part of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading including those on the back thereof, set forth in the classification or tariff which governs the transportation of the shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

CONSIGNED TO

SCIENTIFIC CHEMICAL
411 WILSON AVENUE
NEWARK, NEW JERSEY

Mail or Street Address of Consignee for purpose of identification only

ROUTE CUST PICK UP

DELIVERING CARRIER

CAR OR VEHICLE INITIAL AND NO.

QUANTITY	HM	DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	*WEIGHT (Subject to Correction)	CLASS OR RATE	CHECK COLUMN
76 DRS		RESIN SOLUTION	38940		

IN THE EVENT OF ANY EMERGENCY CONCERNING THE PRODUCT IN THIS SHIPMENT, CALL TOLL FREE NUMBER 800-424-9300, DAY OR NIGHT.

Subject to Section 7 of conditions, if shipment is to be delivered to the consignee without recourse on the consignor the consignor shall sign the following statement:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

ASHLAND CHEMICAL COMPANY

(Signature of Consignor)

If charges are to be Prepaid type here "Prepaid"

COLLECT

Received $ _____ to apply in prepayment of the charges on the property described hereon.

Agent or Cashier

Per _____
(The signature here acknowledges only the amount prepaid.)

Charges advanced:

$ _____

*The fibre boxes or sacks used for this shipment conform to requirements of Rule 5 of Consolidated Freight Classification

The description and weight indicated in this bill of lading are correct subject to verification by the APPROPRIATE WEIGHING AND INSPECTION BUREAU according to agreement.

*If the shipment moves between two points by carrier by water the law requires that the bill of lading shall state whether it is carrier's or shipper's weight. Note—Where the rate is dependent on value shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ _____ per _____

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Not a bill of lading when moved in a vehicle operated by shipper or owner of property, but merely a receipt for property in behalf of

Carrier certifies that the carbon tank used for this shipment is a proper container for transportation of this commodity.

SIGN

ASHLAND CHEMICAL COMPANY, SHIPPER
400 DORMUS AVENUE NEWARK, NJ

PER _____

Permanent post office address of shipper P.O. BOX 2219, COLUMBUS, OHIO 43216

8304

842600399 0033225

ASHLAND CHEMICAL COMPANY
400 DORENUS AVENUE
NEWARK, NJ
CUST PICK UP

Carrier

12-8-78

Shipper's Number

Ashland.

ASHLAND CHEMICAL COMPANY
Division of Ashland Oil Inc

STRAIGHT BILL OF LADING

(Non Transit) SHORT FORM

SHIPPING ORDER COPY

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said carrier (the word carrier being understood throughout this contract) as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any part of said property, over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or a rail-water shipment, or (2) in the applicable motor carrier classification or tariff, if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

CONSIGNED TO

SCIENTIFIC
411 WILSON AVENUE
NWK, NJ

Mail or Street Address of Consignee for purpose of identification only

ROUTE CUST PICK UP

DELIVERING CARRIER

CAR OR VEHICLE INITIAL AND NO

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

ASHLAND CHEMICAL COMPANY

(Signature of Consignor)

If charges are to be Prepaid type here "Prepaid"

COLLECT

QUANTITY	HM	DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	*WEIGHT (Subject to Correction)	CLASS OR RATE	CHECK COLUMN
7 DRS		RESIN SOLUTION	71360 26510 44850 net		

Received $ _____ to apply in prepayment of the charges on the property described hereon.

Agent or Cashier

Per _____
(The signature here acknowledges only the amount prepaid.)

Charges advanced

$ _____

*The fibre boxes or sacks used for this shipment conform to requirements of Rule 5-40 and 41 of Consolidated Freight Classification.

The description and weight indicated on this bill of lading are correct subject to verification by the APPROPRIATE WEIGHING AND INSPECTION BUREAU according to agreement.

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is carrier's or shipper's weight. Note—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ _____ per _____

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation, according to the applicable regulations of the Department of Transportation.

Date 12-8-78

Note—Where a bill of lading when moved in a vehicle operated by shipper or owner of product, but merely a receipt for product in behalf of owner.

Carrier certifies that the cargo tank supplied for this shipment is a proper container for the transportation of this commodity.

IN THE EVENT OF ANY EMERGENCY CONCERNING THE PRODUCT IN THIS SHIPMENT, CALL TOLL-FREE NUMBER 800-424-9300, DAY OR NIGHT.

SIGNATURE

ASHLAND CHEMICAL COMPANY, SHIPPER
400 DORENUS AVENUE NEWARK, NJ

AGENT

PER _____

Permanent post office address of shipper P O BOX 2219, COLUMBUS, OHIO 43216

842600400 0011025

ASHLAND CHEMICAL COMPANY
400 DOREMUS AVENUE
NEWARK, NJ
CUST PICK UP
Carrier

Date
XXXX 12-8-78
11
Shipper's Number

Ashland.

ASHLAND CHEMICAL COMPANY
Division of Ashland Oil Inc

STRAIGHT BILL OF LADING
(Non Transit) SHORT FORM
SHIPPING ORDER COPY

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned, and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any part of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

CONSIGNED TO

SCIENTIFIC CHEMICAL
411 WILSON AVENUE
NEWARK, NEW JERSEY

Mail or Street Address of Consignee for purpose of identification only

ROUTE CUST PICK UP

DELIVERING CARRIER

CAR OR VEHICLE INITIAL AND NO.

QUANTITY	HM	DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	*WEIGHT (Subject to Correction)	CLASS OR RATE	CHECK COLUMN
4 DRS		RESIN SOLUTION	1 7920 3870 39170		

IN THE EVENT OF ANY EMERGENCY CONCERNING THE PRODUCT IN THIS SHIPMENT, CALL TOLL FREE NUMBER [illegible] DAY OR NIGHT

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

ASHLAND CHEMICAL COMPANY

(Signature of Consignor)

If charges are to be Prepaid type here "Prepaid"

COLLECT

Received $ _____ to apply in prepayment of the charges on the property described hereon.

Agent or Cashier

Per _____
(The signature here acknowledges only the amount prepaid.)

Charges advanced:

$ _____

*The fibre boxes or sacks used for this shipment conform to requirements of Rule 5-41 and 41 of Consolidated Freight Classification.

The description and weight indicated on this bill of lading are correct subject to verification by the APPROPRIATE WEIGHING AND INSPECTION BUREAU according to agreement.

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." Note—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ _____ per _____

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation, according to the applicable regulations of the Department of Transportation.

Not a bill of lading when moved in a vehicle operated by shipper or owner of product, but merely a receipt for product in behalf of owner.

Carrier certifies that the cargo tank supplied for this shipment is a "proper" container for the transportation of this commodity.

SIGNATURE

ASHLAND CHEMICAL COMPANY, SHIPPER
400 DOREMUS AVENUE NEWARK, NJ

AGENT

PER

Permanent post office address of shipper: P.O. BOX 2219, COLUMBUS, OHIO 43216

842600401 0011027

8304

ASHLAND CHEMICAL COMPANY
400 DORELUS AVENUE
NEWARK, NJ

CUST PICK UP Carrier

11
12-8-78

pper's Number

Ashland.

ASHLAND CHEMICAL COMPANY
Division of Ashland Oil Inc

STRAIGHT BILL OF LADING
(Non Transit) SHORT FORM
SHIPPING ORDER COPY

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading the property described below in apparent good order except as noted (contents and condition of contents of packages unknown) marked consigned and destined as indicated below which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination if on its route otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any part of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SIGNED TO

SCIENTIFIC CHEMICAL
411 WILSON AVENUE
NEWARK, NJ

Mail or Street Address of Consignee for purpose of identification only

TE

CUST PICK UP

IVERING CARRIER

CAR OR VEHICLE INITIAL AND NO.

Subject to Section 7 of conditions if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges

ASHLAND CHEMICAL COMPANY

(Signature of Consignor)

If charges are to be Prepaid type here "Prepaid"

COLLECT

ANTITY	HM	DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	*WEIGHT (Subject to Correction)	CLASS OR RATE	CHECK COLUMN
RS		RESIN SOLUTION	6927 3443 4370		

IN THE EVENT OF ANY EMERGENCY CONCERNING THE PRODUCT IN THIS SHIPMENT, CALL TOLL-FREE NUMBER 800-424-9300, DAY OR NIGHT.

Received $ _____ to apply in prepayment of the charges on the property described hereon

Agent or Cashier

Per _____
(The signature here acknowledges only the amount prepaid.)

Charges advanced

$ _____

"The fibre boxes or sacks used for this shipment conform to requirements of Rule 5-40 and 41 of Consolidated Freight Classification

The description and weight indicated on this bill of lading are correct subject to verification by the APPROPRIATE WEIGHING AND INSPECTION BUREAU according to agreement

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." Note—Where the rate is dependent on value shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ _____ per _____

This is to certify that the above named materials are properly classified described packaged marked and labeled and are in proper condition for transportation, according to the applicable regulations of the Department of Transportation

Not a bill of lading when moved in a vehicle operated by shipper or owner of property but merely a receipt for product in behalf of owner

Carrier certifies that the cargo tank supplied for this shipment is a proper container for the transportation of this commodity

SIGNATURE

SHLAND CHEMICAL COMPANY, SHIPPER
400 DORELUS AVENUE NEWARK, NJ

AGENT

PER _____

ermanent post office address of shipper P O BOX 2219, COLUMBUS, OHIO 43216

0011029

842600402

ASHLAND CH

CARRIER NAME: Central Cty BILL

DELIVERING CARRIER:

SHIPPED BY: ASHLAND CHEMICAL COMPANY
DIVISION OF ASHLAND OIL, INC

ROUTE: CUSTOMER PICK UP

SHIPPED FROM: NEWARK NJ

CUSTOMER ORDER NO: VERBAL

CONSIGNED TO
SCIENTIFIC CHEMICAL PROCESSING
-INCORPORATED
411 WILSON AVENUE
NEWARK NJ 07105

WEIGHED ON A FAIRBANKS SCALE

Load Arts Rent Date 11/17/78

From C P

Gross 78500 lbs Driver Scott Clubroom

Tare 31490 lbs Price Cont

Net 47010 lbs Amt

Fairbanks On Off Cat. 083453 (SJ351A) Weigher Printed in U.S.A.

ASHLAND ORDER NO: 014176-009090-

CAR NO: DATE SHIPPED 11/17/78

ORG SPLC: 191600 DEST SPLC: 191600

COLLECT

Quantity 920
STU 120,560

NO OF PACKAGES	HM RIND OF PACKAGE, DESCRIPTION OF ARTICLES SPECIAL MARKS, & EXCEPTIONS	GROSS WEIGHT (SUB TO CORR)	FREIGHT RATE
1	FLAMMABLE LIQUID NOS PLACARDED FLAMMABLE BULK CHEMICALS NOIBN 032976 , 1285 PREMIX	47010	

Delay 8:30 10:30

IN EMERGENCY CONCERNING PRODUCT IN THIS SHIPMENT CALL
800-424-9300 DAY OR NIGHT. (APPLICABLE TO HAZARDOUS MATERIALS)

LAST PAGE

ASHLAND CHEMICAL COMPANY

Robert Allen

3

COMPANY

DING

CARRIER'S NO: PAGE
COPY NO

CARRIER NAME: C

DELIVERING CARRIER:

SHIPPED BY: ASHLAND CHEMICAL COMPANY
DIVISION OF ASHLAND OIL, INC

ROUTE: CUSTOMER PICK UP

SHIPPED FROM: NEWARK NJ

CUSTOMER ORDER NO: VERBAL

CONSIGNED TO
SCIENTIFIC CHEMICAL PROCESSING
-INCORPORATED
411 WILSON AVENUE
NEWARK NJ 07105

Load 11285 Rent Date 11/24/78

From C P

Gross 68740 lbs Driver Scott Clubroom

Tare 25760 lbs Price Cont

Net 42980 lbs Amt

Fairbanks On Off Cat. 083453 (SJ351A) Weigher Printed in U.S.A.

ASHLAND ORDER NO: 014176-00915

CAR NO: DATE SHIPPED 11/24/78

ORG SPLC: 191600 DEST SPLC: 191600

COLLECT

NO OF PACKAGES	HM RIND OF PACKAGE, DESCRIPTION OF ARTICLES SPECIAL MARKS, & EXCEPTIONS	GROSS WEIGHT (SUB TO CORR)	FREIGHT RATE
1	FLAMMABLE LIQUID NOS PLACARDED FLAMMABLE BULK CHEMICALS NOIBN 032976 , 1285 PREMIX CONTAINER PLACARDED WITH NUMBER 3 TYPE FLAMMABLE PLACARDS DATE 12-[illegible]-78	42980	

IN EMERGENCY CONCERNING PRODUCT IN THIS SHIPMENT CALL TOLL FREE [illegible]
800-424-9300 DAY OR NIGHT (APPLICABLE TO HAZARDOUS MATERIALS)

LAST PAGE

ASHLAND CHEMICAL COMPANY

Robert Allen

0017919

842600403

THEIR TRUCK

AT NEWARK, NJ DEC 15 19 78

Load Plant Day 44 44

From

Gross 63 940 lbs To 11 PV Kent, Elec.

Tare 25 540 lbs Price

Net 38400 lbs Amt.

12 on 8 on Off Weigher

Fairbanks Cat. 083453 (SJ351A) Printed in U.S.A.

CONSIGNED TO SCIENTIFIC CHEMICAL 411 WILSON AVENUE

DESTINATION NEWARK, STATE OF NJ COUNTY OF

DELIVERY ADDRESS (To be filled in only when shipper desires and governing tariffs provide for delivery thereat)

ROUTE THEIR TRUCK

DELIVERING CARRIER CAR INITIAL CAR NO.

No. Pkgs	Description of Articles, Special Marks and Exceptions	*Weight (Subject to Correction)	Class or Rate	Check Column
TANK WAGON	RESIN SOLUTION FLAMMABLE LIQUID BULK A 1285 PREMIX GROSS	63940		
	TARE	25540		
	NET	38400		
	CONTAINER PLACARDED WITH NO 4 TYPE FLAMMABLE LIQUID PLACARDS			

This is to certify that the above-named articles are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation, according to the applicable regulations of the Department of Transportation.

IN THE EVENT OF ANY EMERGENCY CONCERNING THE PRODUCT IN THIS SHIPMENT, CALL TOLL FREE NUMBER 800 424 9300 DAY OR NIGHT

COLLECT

SPENCER KELLOGG, a division of TEXTRON INC., Shipper

Per [signature] → Agent must detach and retain this Shipping Order and must sign the Original Bill of Lading

Permanent post office address of shipper, 400 DORRANCE AVENUE KENNAE, RI 02105

PER AGENT

CLAIM NO. AMOUNT AS PER B.R. NO. DATE ATTACHED BY

SPENCER KELLOGG DIVISION OF TEXTRON INC Per

TRANSIT RECORD NO.	Conn	ORIGIN POINT	DATE	BILLED FROM	ROAD	DATE WAYBILL NO	DATE FRT BILL NO	CAR INITIAL AND NUMBER	WEIGHT APPLIED	RATES THRU	Pool or Ass	Rail Line
						12 Noon - 8 PM						

Tariff Reference Cr. Bal. Due Transit House

Shipper's Certificate

This is to certify that the tonnage listed under outbound is applicable to the commodity forwarded as provided in Tariff No. ICC No.

Issued ☐ Prop Rate ☐ Issued Operator

SPENCER KELLOGG DIVISION OF TEXTRON INC.

Load Plant Date 12/12/78

From

Gross 61 000 lbs To Spencer Kellogg

Tare 40 560 lbs Price Corp

Net 20440 lbs Amt.

On Off Weigher

Fairbanks Cat. 083452 (SJ351A) Printed in U.S.A.

Name of Carrier From Spencer Kellogg Division of Textron Inc

CONSIGNED TO SCIENTIFIC CHEMICAL INC 411 WILSON AVENUE

DESTINATION NEWARK, STATE OF NEW JERSEY COUNTY OF

DELIVERY ADDRESS (To be filled in only when shipper desires and governing tariffs provide for delivery thereat)

ROUTE CUST PICK UP

DELIVERING CARRIER CAR INITIAL CAR NO.

No. Pkgs	Description of Articles, Special Marks and Exceptions	*Weight (Subject to Correction)	Class or Rate	Check Column
TANK WAGON	RESIN SOLUTION FLAMMABLE LIQUID RESIN BULK PREMIX 1285 WHT. VISION			
	CONTAINER PLACARDED WITH NUMBER 4 TYPE FLAMMABLE LIQUID			

This is to certify that the above-named articles are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation, according to the applicable regulations of the Department of Transportation.

IN THE EVENT OF ANY EMERGENCY CONCERNING THE PRODUCT IN THIS SHIPMENT, CALL TOLL FREE NUMBER 800 424 9300 DAY OR NIGHT

COLLECT

SPENCER KELLOGG, a division of TEXTRON INC., Shipper

Per [signature] → Agent must detach and retain this Shipping Order and must sign the Original Bill of Lading

Permanent post office address of shipper, 400 DORRANCE AVENUE PROVIDENCE, RI 02105

PER AGENT

CLAIM NO. AMOUNT AS PER B.R. NO. DATE ATTACHED BY

SPENCER KELLOGG DIVISION OF TEXTRON INC Per

TRANSIT RECORD NO.	Conn	ORIGIN POINT	DATE	BILLED FROM	ROAD	DATE WAYBILL NO	DATE FRT BILL NO	CAR INITIAL AND NUMBER	WEIGHT APPLIED	RATES THRU	Pool or Ass	Rail Line

Tariff Reference Cr. Bal. Due Transit House

Shipper's Certificate

This is to certify that the tonnage listed under outbound is applicable to the commodity forwarded as provided in Tariff No. ICC No.

Issued ☐ Prop Rate ☐ Issued Operator

SPENCER KELLOGG DIVISION OF TEXTRON INC.

Delivery 3:30 - 6:00

0017920

842600404

ASHLAND CHEMICAL COMPANY
400 DOREMUS AVENUE
NEWARK, NJ
CUST PICK UP

Carrier

Date
12-6-78

Shipper's Number

Ashland.
ASHLAND CHEMICAL COMPANY
Division of Ashland Oil Inc

STRAIGHT BILL OF LADING
(Non Transit) SHORT FORM
SHIPPING ORDER COPY

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own line, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any part of said property, over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth in (1) Uniform Straight Classification in effect on the date hereof, if this is a rail or a rail-water shipment, or (2) in the applicable motor carrier classification in effect on the date hereof, if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

CONSIGNED TO
SCIENTIFIC CHEMICAL
411 WILSON AVENUE
NEWARK, NEW JERSEY

Mail or Street Address of Consignee for purpose of identification only

CUST PICK UP

ROUTE

DELIVERING CARRIER

CAR OR VEHICLE INITIAL AND NO

QUANTITY	HM	DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	WEIGHT (Subject to Correction)	CLASS OR RATE	CHECK COLUMN
16	DOT	RESIN SOLUTION	6934 U 2893 U 4041 U		

IN THE EVENT OF ANY EMERGENCY CONCERNING THE PRODUCT SHIPMENT CALL [illegible] RQQ 424

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

ASHLAND CHEMICAL COMPANY

(Signature of Consignor)

If charges are to be Prepaid, write here "Prepaid."

COLLECT

Received $
to apply in prepayment of the charges on the property described hereon.

Agent or Cashier

Per
(The signature here acknowledges only the amount prepaid.)

Charges advanced:
$

The hire, boxes or sacks used for this shipment conform to requirements of Rule 5-40 and 41 of Consolidated Freight Classification.

The description and weight indicated on this bill of lading are correct subject to verification by the APPROPRIATE WEIGHING AND INSPECTION BUREAU according to agreement.

If this shipment moves between two ports by a carrier by water, the law requires that this bill of lading shall state whether it is "carrier's or shipper's weight." Note: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ per

The grind to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation, according to the applicable regulations of the Department of Transportation.

Not a bill of lading

WEIGHED ON A FAIRBANKS SCALE
#5808 Date 12/8/78
Lbs.
From
Gross 6934 lbs To
Tare 2893 Price
Net 4041
Weighed
On Off
Fairbanks Cat. 69440 SUBWAY
Printed in U.S.A.

ASHLAND CHEMICAL COMPANY Shipper
400 DOREMUS AVENUE NEWARK, NJ
Permanent post office address of shipper P O BOX 2219, COLUMBUS, OHIO 43216
5306

842600405

A
II 433960
THE SERIAL NUMBER OF THIS RECEIPT HAS BEEN RECORDED BY DATE OF ISSUE AND COLLECTOR ISSUING SAME. DO NOT ACCEPT IF ERASED OR OTHERWISE ALTERED.
COLLECTOR SHOULD PLACE AN X IN THE DOLLARS OR CENTS BOXES NOT USED
DATE
CENTS
DOLLARS
TOLL RECEIPT
Received for payment of tolls at the State Turnpike

B
66 19454
DEC 8 '78
DATE
CENTS
DOLLARS
TOLL RECEIPT
Received for payment of tolls at the State Turnpike
THE SERIAL NUMBER OF THIS RECEIPT HAS BEEN RECORDED BY DATE OF ISSUE AND COLLECTOR ISSUING SAME. DO NOT ACCEPT IF ERASED OR OTHERWISE ALTERED.
COLLECTOR SHOULD PLACE AN X IN THE DOLLARS OR CENTS BOXES NOT USED

0017922

ASHLAND CHEMICAL COMPANY
400 DOREMUS AVENUE
NEWARK, NJ

CUST PICK UP

12-8-78

Shipper's Number

ASHLAND CHEMICAL COMPANY

Division

Load 5808 Date 12-8-78

From

Gross 57X lbs

Tare 57X lbs

Net 38940 lbs.

On Off

Fairbanks Cat. 083433 (LX881A)

ING

To

Price

Amt.

Weight

Printed in U.S.A.

RECEIVED subject to terms on shipment issued and distributed as indicated herein, in connection with possession of all or otherwise to deliver to another property over all or any portion of said route to be performed within (1) in Uniform Freight Classification or tariff. Shipper hereby certifies that he is the owner of the goods described on this bill of lading and that the classification or tariff which governs the transportation of this shipment and the terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

CONSIGNED TO

SCIENTIFIC CHEMICAL
411 WILSON AVENUE
NEWARK, NEW JERSEY

Mail or Street Address of Consignee for purpose of identification only

DESTINATION CUST PICK UP

DELIVERING CARRIER

CAR OR VEHICLE INITIAL AND NO

QUANTITY	HM	DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	WEIGHT (Subject to Correction)	CLASS OR RATE	CHECK COLUMN
76 DRS		RESIN SOLUTION	38940		

IN THE EVENT OF ANY EMERGENCY CONCERNING THIS SHIPMENT CONTACT CHEMTREC AT (800) 424-9300, DAY OR NIGHT.

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

ASHLAND CHEMICAL COMPANY

(Signature of Consignor)

If charges are to be Prepaid write here "Prepaid"

COLLECT

Received $ to apply in prepayment of the charges on the property described hereon.

Agent or Cashier

Per (This signature here acknowledges only the amount prepaid.)

Charges advanced

The rate, boxes or sacks used for this shipment conform to requirements of Rule 5-40 and 41 of Consolidated Freight Classification.

The description and weights indicated on this bill of lading are correct subject to verification by the APPROPRIATE WEIGHING AND INSPECTION BUREAU according to agreement.

If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is carrier's or shipper's weight. Note: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ per

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation, according to the applicable regulations of the Department of Transportation.

Has a bill of lading been issued in a vehicle operated by shipper or owner of product but signed a receipt for product in behalf of owner

Carrier certifies that the containers supplied for this shipment are proper containers for the transportation of this commodity.

SIGNATURE

ASHLAND CHEMICAL COMPANY, Shipper

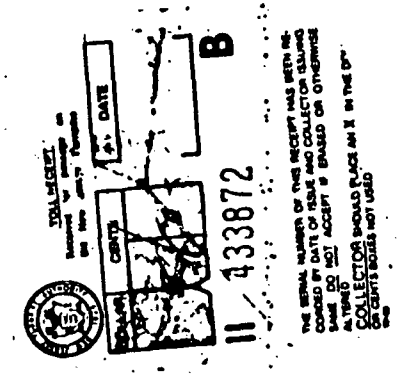
400 DOREMUS AVENUE NEWARK, NJ

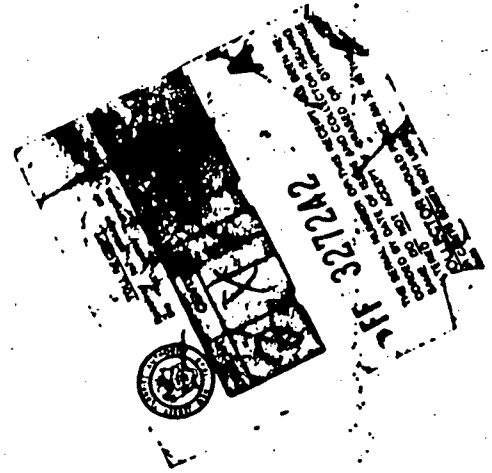
AGENT

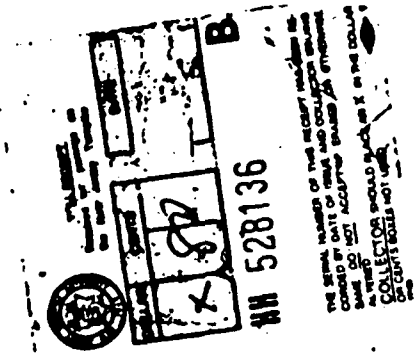
PER

Permanent post office address of shipper P.O. BOX 2219 COLUMBUS, OHIO 43216

8104







842600406

001322

ASHLAND CHEMICAL COMPANY
400 DOMINICK AVENUE
KEARNY, NJ
CURB PICK UP

Load 3504 Date 12-8-78

From ACC on Dunellen

Gross 36510 lbs To

Tare 9510 lbs Price

Net 27000 lbs Amt.

On Off

Fairbanks Cat. 083452 (SJ391A) Weigher

Printed in U.S.A.

BILL OF LADING
SHORT FORM
ORDER COPY

Issued 12-8-78

CONSIGNED TO

SCIENTIFIC
411 VILLAGE AVENUE
RMC, NJ

Mail or Street Address of Consignee for purpose of identification only

DESTINATION CURB PICK UP

(If Receiving Carrier) CAR OR VEHICLE INITIAL AND NO

QUANTITY	HM	DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	WEIGHT (Subject to Correction)	CLASS OR RATE	CHECK COLUMN
55		RESIN SOLUTION	27000 lbs		
			71360		
			36510		
			44850 lbs		

Delay 1200 - 215

IN THE EVENT OF ANY EMERGENCY CONCERNING THIS SHIPMENT, CALL [illegible] NUMBER 800-424-9300, DAY OR NIGHT.

Subject to Section 7 of conditions of the shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement

The carrier shall not make delivery of the shipment without payment of freight and all other lawful charges

ASHLAND CHEMICAL COMPANY

(Signature of Consignor)

If charges are to be Prepaid, type here Prepaid

COLLECT

Received $ to apply in prepayment of the charges on the property described hereon

Agent or Cashier

Per (The signature here acknowledges only the amount prepaid)

Charges advanced

$

The blank boxes or sacks used for the shipment conform to requirements of Rule 5 40 and 41 of Consolidated Freight Classification

The description and weight indicated on this bill of lading are correct subject to verification by the APPROPRIATE WEIGHING AND INSPECTION BUREAU according to agreement

If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is carrier's or shipper's weight. Note: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ per

COD $ [illegible]

Prepaid

If charges are to be Prepaid, type here

Prepaid $

To apply in prepayment of the charges on the property described hereon

Agent or Cashier

Per

COLLECT

(Signature of Consignor)

ASHLAND CHEMICAL COMPANY

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation

Per

Shipper's Imprint in lieu of stamp; not a part of bill of lading unless so noted

Carrier certifies that the cargo tank supplied for this shipment is a proper container for the transportation of the commodity

AGENT

PER

ASHLAND CHEMICAL COMPANY, Shipper

400 DOMINICK AVENUE KEARNY, NJ

(Permanent post office address of shipper) P O BOX 2219, COLUMBUS, OHIO 43216

842600407

ASHLAND CHEMICAL COMPANY
(Non Transit) SHORT FORM
SHIPPING ORDER COPY

STRAIGHT BILL OF LADING

Ashland

RECEIVED, Subject to the Classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked and destined as indicated below, which the carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if it is lawful to do so, or to deliver to another carrier on the route to said destination. It is agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on the back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding [illegible] per [illegible].

Shipper's No. [illegible]

Agent's No. [illegible]

CARRIER

DATED 12-8-78

FROM ASHLAND CHEMICAL COMPANY
400 DOMINICK AVENUE
KEARNY, NJ

CURB PICK UP

TO SCIENTIFIC
411 VILLAGE AVENUE
KEARNY, NEW JERSEY

Mail or Street Address of Consignee for purpose of identification only

CAR OR VEHICLE INITIAL AND NO

DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	WEIGHT (Subject to Correction)	CLASS OR RATE	CHECK COLUMN
RESIN SOLUTION	27000 lbs		
	1920		
	36510		
	29170		

WEIGHED ON A PARAMOUNT SCALE

Date [illegible]

Weight 27000 lbs

Tare 9510 lbs

Gross 36510 lbs

Price [illegible]

Amt. [illegible]

From [illegible] To [illegible]

Weighed by [illegible]

Checked by [illegible]

Delivering Carrier [illegible]

Vehicle [illegible]

Agent [illegible]

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

ASHLAND CHEMICAL COMPANY

(Signature of Consignor)

If charges are to be prepaid, write or stamp here, "To be Prepaid."

Received $ to apply in prepayment of the charges on the property described hereon.

Agent or Cashier

Per (The signature here acknowledges only the amount prepaid.)

Charges advanced:

$

The blank boxes or sacks used for this shipment conform to requirements of Rule 5 40 and 41 of Consolidated Freight Classification.

The description and weight indicated on this bill of lading are correct subject to verification by the APPROPRIATE WEIGHING AND INSPECTION BUREAU according to agreement.

If this shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is carrier's or shipper's weight. Note: Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ per

COD $ [illegible]

Prepaid

If charges are to be Prepaid, write or stamp here, "To be Prepaid."

Prepaid $

To apply in prepayment of the charges on the property described hereon.

Agent or Cashier

Per

COLLECT

(Signature of Consignor)

ASHLAND CHEMICAL COMPANY

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Per

Shipper's Imprint in lieu of stamp; not a part of bill of lading unless so noted.

Carrier certifies that the cargo tank supplied for this shipment is a proper container for the transportation of the commodity.

AGENT

PER

9017324

84260040B

FROM
ASHLAND CHEMICAL COMPANY
400 DORSMOR AVENUE
NEWARK, NJ

CUST PICK UP Carrier

Date 12-8-78

Shipper's Number

Ashland.
ASHLAND CHEMICAL COMPANY
Division of Ashland Oil, Inc.

STRAIGHT BILL OF LADING
(Non Transit) SHORT FORM
SHIPPING ORDER COPY

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading the property described below in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under this contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is hereby agreed, as to each carrier of all or any part of said property, over all or any portion of said route to destination, and as to each party at any time interested in all or any part of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

CONSIGNED TO
SCIENTIFIC CHEMICAL
411 WILSON AVENUE
NEWARK, NJ

Mail or Street Address of Consignee for purpose of identification only

ROUTE
CUST PICK UP

DELIVERING CARRIER

CAR OR VEHICLE INITIAL AND NO

DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	*WEIGHT (Subject to Correction)	CLASS OR RATE	CHECK COLUMN
16 DRS RESIN SOLUTION	6927 3892 46370		

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

ASHLAND CHEMICAL COMPANY
Signature of Consignor

If charges are to be Prepaid write here "Prepaid"
COLLECT

Received $ _____ to apply in prepayment of the charges on the property described hereon.

Agent or Cashier

Per _____
(The signature here acknowledges only the amount prepaid.)

Charges advanced
$ _____

The rate, class or basis used for this shipment conforms to requirements of Rule 540 and 41 of Consolidated Freight Classification.

The description and weight indicated on this bill of lading are correct subject to verification by the APPROPRIATE IHE/CHMC AND INSPECTION BUREAU according to agreement.

*Where shipment moves between ports on a carrier by water, the law requires that the bill of lading shall state whether it is carrier's or shipper's weight. Note—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding
$ _____ per _____

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

_____

Note: A bill of lading when marked in a manner agreed by shipper or owner of product that money is required for product, shall not relieve

IN THE EVENT OF ANY EMERGENCY CONCERNING THE PRODUCT IN THIS SHIPMENT, CALL TOLL-FREE NUMBER 800 424-9300, DAY C

WEIGHED ON A FAIRBANKS SCALE

Load 4780 Date 12/11/78

From _____ Lot

Gross 69270 lbs To _____

Tare 28000 lbs Price _____

Net 46370 lbs Amt _____

On _____ Off _____ Weigher

Fairbanks Cat. 083453 (5/33FA) Printed in U.S.A.

ASHLAND CHEMICAL COMPANY, Shipper
400 DORSMOR AVENUE NEWARK, NJ

Permanent post office address of shipper P O BOX 2219 COLUMBUS OHIO 43216

8309

0017925

842600409

[illegible] AVENUE
[illegible]

ASHLAND CHEMICAL COMPANY

(Non Negotiable)

SHIPPING ORDER COPY

Carrier: THEIR TRUCK

Date: 12-29-78 12-30-78 1-3-78

Shipper's Number:

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any part of said property, over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

CONSIGNED TO

SCIENTIFIC CHEMICAL COMPANY
216 PATTERSON PLANK RD
CARLSTADT, NEW JERSEY

Mail or Street Address of Consignee for purpose of Identification only

ROUTE THEIR TRUCK

DELIVERING CARRIER

CAR OR VEHICLE INITIAL AND NO

Subject to Section 7 of conditions if shipment is to be delivered to the consignee without recourse on the consignor the consignor shall sign the following statement

The carrier shall not make delivery of this shipment without payment of freight and other lawful charges

ASHLAND CHEMICAL COMPANY

(Signature of Consignor)

If charges are to be Prepaid, write here "Prepaid"

collect

QUANTITY	HM	DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	*WEIGHT (Subject to Correction)	CLASS OR RATE	CHECK COLUMN
18 DRS	X	RESIN SOLUTION FLAMABLE LIQUID WASTER MATERIAL			
		GROSS	50040		
		TARE	26410		
		NET	23630		

TIME IN 1230

TIME OUT 1 31

PLACARDED FLAMABLE LIQUID

NUBER 4 FLAMABLE LIQUID

K. Dockens

THIS WASTER MATERIAL IS CONSIGNED TO

SCIENTIFIC CHEMICAL 99 PATTERSON AVENUE NUTLEY NJ FOR DISPOSAL

SIGNED K. Dockens

SCIENTIFIC CHEMICAL

IN THE EVENT OF ANY EMERGENCY CONCERNING THE PRODUCT SHIPPED

DEFENDANT'S EXHIBIT

Received $ _____ to apply in prepayment of the charges on property described hereon

Agent or Cashier

Per _____ (The signature here acknowledges only amount prepaid)

Charges advanced

$ _____

"The fibre boxes or sacks used for this shipment conform to requirements of Rule 5-41, 41 of Consolidated Freight Classification"

The description and weight indicated on this bill of lading are correct subject to verification by the "APPROPRIATE WEIGHING AND INSPECTION BUREAU" according to agreement

"If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." Note—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ _____ per _____

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation

WEIGHED ON A FAIRBANKS SCALE

Took Mike Millward Date 1/3/78

From _____ To Euclid

Gross 50 040 lbs Price _____

Tare 26 410 lbs

Net 23 630 lbs Amt. _____

Weigher

Printed in U.S.A.

Fairbanks On Off Cat. 083452 (0351A)

of lading when moved in a ve[illegible] by shipper or owner of property for product in behalf of the

[illegible]ties that the cargo tank truck sent is a proper container for [illegible]ion of this commodity

SIGNATURE

AGE

ASHLAND CHEMICAL COMPANY, SHIPPER
400 DOREMUS AVENUE N[illegible]

Permanent post office address of shipper P O BOX 2219

842600410 0010967

105

300

ACCOUNTS PAYABLE DISTRIBUTION (USE BLACK INK)

D168934

PURCHASE ORDER NUMBER	RELEASE NO.	VENDOR NO.	DOCUMENT
5C2C5Y1	02 00	0134906300	

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT	NET AMOUNT
13-90a			2092.50

RDM (N – NOT REQUIRED, P – PRESENT, R – REQ/NOT PRESENT)	Cont. (CHECK)	APPROVAL ID	MANUAL CHECK	SPEC.	TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT.
N	N	Ady263			

STATISTICAL	QUANTITY	DETAIL	PREPIX	ACCOUNT	SUFFIX	SIC CODE	AMOUNT
		00750	362	0102377	236	0108100	2092.50

FEB 24 1988

VENDOR

CODED BY	EMPLOYEE NO.	INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)	TOTAL DISTRIBUTION
	915654		2092.50

842600411

SCIENTIFIC CHEMICAL PROCESSING, INC.
411 WILSON AVENUE, NEWARK, NEW JERSEY 07105
(201) 589-7777

INVOICE NO: 13-92
DATE: 1-23-78

SOLD TO: Ashland Chemical
400 Doremus Ave.
Newark, N.J. 07105
Attn: Mr. Dillon

SHIP TO ☐ PICK UP AT ☐
(SAME AS SOLD TO UNLESS INDICATED)

SALES ORDER #	YOUR ORDER NO.	TERMS NET 10 DAYS	SHIPPED VIA	FRT. COLL.
N-92	362-6541	Net 10 Days	SCP 1-19-78	X

QTY. APPROXIMATE	QTY. ACTUAL	DESCRIPTION	PRICE	AMOUNT
1 T/L	76 drums	Waste Removed	$25/dr	$1900.00
		Delay 10:30-3:30 = 3½ hrs	~~$20/hr~~	~~$ 77.00~~
1 T/L	1 T/L	Transportation	$140/ld	$ 140.00
				~~$2117.00~~
				2092.50

Passed for Chemical Acceptance
FEB 16 1978
ASHLAND CHEMICALS
FEB 16 1978
RECEIVED
Pay @ 15.00 flat not 22.00/hr
Emp. No. 061263
By RG Decker

T1$1900.00
F1$ ~~217.00~~ 192.50

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF

INVOICE

842600412

(164)

300

ACCOUNTS PAYABLE DISTRIBUTION — (USE BLACK INK)

E182936

PURCHASE ORDER NUMBER	DUE DATE (MO. DAY YR.)	VENDOR NO.	ENTRY (MO. DAY)	DOCUMENT VOUCHER #
362-654.1	02 19 78	01399063	02 28	

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT	NET AMOUNT
2-2			4180 00

RCM (N – NOT REQUIRED, P – PRESENT, R – REQ./NOT PRESENT)	Cont. (CHECK)	APPROVAL ID	MANUAL CHECK	SPEC.	TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT.
N	N	106 1363			

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	S/C CODE	AMOUNT
		0075000	362	8102837	226	0105105	4180 00

CODED BY	EMPLOYEE NO.	INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)	TOTAL DISTRIBUTION
W	015654	MAR 06 1978	4180 00

V.I.DOR

842600413

2 0 0 1

S C P

SCIENTIFIC CHEMICAL PROCESSING, INC.
411 WILSON AVENUE, NEWARK, NEW JERSEY 07105
(201) 589-7777

Passed For Payment
MAR 3 1978
Chemical Accounting

INVOICE NO: 2-2-
DATE: 2-9-78

SOLD TO
Ashland Chemical Co.
Resin & Plastics Division
400 Doremus Ave.
Newark, N.J. 07105

SHIP TO ☐ PICK UP AT ☐
(SAME AS SOLD TO UNLESS INDICATED)

SALES ORDER #	YOUR ORDER NO.	TERMS NET 10 DAYS	SHIPPED VIA	PKD.	WILL
B-2	362-6541	Net 10 Days	SCP	X	

QTY. APPROVED	QTY. SHIPPED	DESCRIPTION	PRICE	AMOUNT
2 T/L	78 drums	Waste Removed 2-1-78	$25/dr	$1950.00
	78 drums	Waste Removed 2-3-78	$25/dr	$ 1950.00
2 T/L	2 T/L	Transportation	$140/Td	$ 280.00
				$4180.00

FEB 27 AM
EXAMINED CALCULATIONS
MAR 2 1978
ASHLAND CHEMICALS

RECEIVED BY
MAR 2 1978

Category	Disp. No.	Category	Disp. No.
1	061126	1	061263
By		By RG Decker	

T1 $3900.00
T1 $ 280.00

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF

INVOICE

842600414

0 2 0 0

107.

300

ACCOUNTS PAYABLE DISTRIBUTION (USE BLACK INK)

E183502

PURCHASE ORDER NUMBER	SUF.	BUY. RATE	VEN.	VENDOR NO.	SUF.	ENTRY
362-6541		0005	18	01359062		1378

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT	NET AMOUNT
2-23			4248.75

RCRD	N – NOT REQUIRED P – PRESENT R – REC./NOT PRESENT	Check EXPEDITE	APPROVAL ID	MANUAL CHECK	SPEC.	TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT.
N		W	06126			

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	R/C CODE	AMOUNT
		0075.00	361	P1037	226	01.P1.	4248 75

MAR 07 1978

VENDOR

CODED BY	EMPLOYEE NO.	INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)	TOTAL DISTRIBUTION
	015654		4248.75

842600415

S C P

SCIENTIFIC CHEMICAL PROCESSING, INC.
411 WILSON AVENUE, NEWARK, NEW JERSEY 07105
(201) 589-7777

SOLD TO
Ashland Chemical Co.
Resin & Plastics Division
500 Doremus Ave.
Newark, N.J. 07105

INVOICE NO: 2-23
DATE: 2-15-78
SHIP TO ☐ PICK UP AT ☐
(SAME AS SOLD TO UNLESS INDICATED)

SALES ORDER #	YOUR ORDER NO.	TERMS: NET 10 DAYS	SHIPPED VIA	PPD.	COLL.
B-23	362-65\1	Net 10 Days	SCP		X

QTY. APPROXIMATE	QTY. ACTUAL	DESCRIPTION	PRICE	AMOUNT
2 T/L	80 drums	Waste Removed 2-8-78	$25/dr	$2000.00
		Delay 1000-030-3 hrs	$15/hr	$ 45.00
	78 drums	Waste Removed 2-14-78	$25/dr	$1950.00
		Delay 245-530- 1¼ hrs	$15/hr	$ 18.75
2 T/L	2 T/L	Transportation	$140/ld	$ 280.00
				$4293.75
				$500
				$3793.75

RECEIVED
FEB 2
1978

Passed For Payment
MAR 6 1978
Chemical Accounting

Category 3 Code No. 041278
Inv. RGD

RECEIVED BY
MAR 02 A.M.

Category 1 Code No. 061263
Inv. RGD

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF

INVOICE

842600416

(108.)

C186754

ACCOUNTS PAYABLE DISTRIBUTION (USE BLACK INK)

PURCHASE ORDER NUMBER	RVC DATA MO.	DAY	YR.	VENDOR NO.	ENTRY MO.	YR.	DOCUMENT NUMBER (If none Blank)
562-6571	03	06	78	0139063	03	78	

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT	NET AMOUNT
2-57			2091.25

RCM (N - NOT REQUIRED, P - PRESENT, R - REQ/NOT PRESENT)	Qual.	APPROVAL ID	MANUAL CHECK	SPEC.	TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT.
N	N	1061263			

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	R/C CODE	AMOUNT
		0023	163	51023	236	0100	2091.25

CODED BY	EMPLOYEE NO.	INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)	TOTAL DISTRIBUTION
U	C15654		2091.25

MAR 14 [illegible]

[illegible]

842600417

SCIENTIFIC CHEMICAL PROCESSING, INC.
411 WILSON AVENUE, NEWARK, NEW JERSEY 07105
(201) 589-7777

SOLD TO
Ashland Chemical Co.
Resin & Plastic Div.
400 Doremus Ave.
Newark, N.J. 07105

RECEIVED BY
MAR 09 A.M.

INVOICE NO: 2-51
DATE: 2-24-78
SHIP TO ☐ PICK UP AT ☐
(SAME AS SOLD TO UNLESS INDICATED)

SALES ORDER NO.	YOUR ORDER NO.	TERMS NET 10 DAYS	SHIPPED VIA	PPD	COLL
B-50	362-6541	Net 10 Days	SCP 2-22-78		X

QTY APPROXIMATE	QTY. ACTUAL	DESCRIPTION	PRICE	AMOUNT
1 T/L	77 drums	Waste Removed	$25/dr	$1925.00
		Delay 10:00-1:15= 1 3/4 hrs	$15/hr	$ 26.25
1 T/L	1 T/L	Transportation	$140/ld	$ 140.00
				$2091.25

2/11/24
RECEIVED ACCOUNTS PAYABLE
MAR 10 ...
1 060263
RG Denker

T1 $1925.00
T1d 166.25

SUBJECT TO THE TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF

INVOICE

842600418

(111.)

300

ACCOUNTS PAYABLE DISTRIBUTION

C112718

PURCHASE ORDER NUMBER	REL. NO.	VENDOR NO.	SUFFIX
362533.7	0302 77	0139063	09 77

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT	NET AMOUNT
8-80			211.500

NOR	R - NOT REQUIRED / P - PRESENT / R - REQ./NOT PRESENT	Quik SCREEN	APPROVAL ID	MANUAL CHECK	SPEC.	TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT
N	N	1	61263			

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	M/C CODE	AMOUNT
		007500	263	P10237	236	0101	211.500

CODED BY	EMPLOYEE NO.	INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)	TOTAL DISTRIBUTION
LL	015654		211.500

SEP 19 '77

VENDOR COPY

842600419

Scientific Chemical Processing, Inc.
411 WILSON AVENUE, NEWARK, NEW JERSEY 07105
Telephone (201) 589-7777

SOLD TO: Ashland Chemical Co.
2600 Doremus Ave.
Newark, N.J. 07105

INVOICE NO: 5-80
DATE: 8-23-77
SHIP TO ☐ PICK UP AT ☐
SAME AS SOLD TO UNLESS INDICATED

SALES ORDER #	YOUR ORDER NO.	TERMS: NET 10 DAYS	SHIPPED VIA		
H-78	362-5537	Net 10 Days	SCP	8-22-77	

QTY. APPROXIMATE	QTY. ACTUAL	DESCRIPTION	PRICE	AMOUNT
1 T/L.-	79 Drums	Misc. Solids Removed Transportation	$25/dr	$ 1975.00 110.00
				$ 2115.00

RECEIVED ACCOUNTS PAYABLE SEP 15 1977

APPROVED

ENGINEERED CALCULATIONS SEP 16 1977 ASHLAND CHEMICALS

Category 1 Limit No. 061263
By: RG Decker
RECEIVED SEP 16 1977

Category 1 Limit No. 8551
By:

Passed For Payment
SEP 16 1977

VI $1975.00
FI $110.00

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF
ORIGINAL INVOICE

Chemical Accounting

842600420

Scientific Chemical Processing, Inc.

411 WILSON AVENUE, NEWARK, NEW JERSEY 0710[illegible]
Telephone (201) 589 7777

SOLD TO
[illegible]land Chemical Co.
[illegible] Doremus Ave.
[illegible]ewark, N.J. 07105

INVOICE NO [illegible]
DATE [illegible]-3-77
SHIP TO ☐ PICK UP AT ☐
SAME AS SOLD TO UNLESS INDICATED

[illegible]-78	362-5537	[illegible]et 10 Days	32[illegible] [illegible]-[illegible]-77	
1 [illegible]	79 Drums	Misc. Solids Removed Transportation	$25/dr $110.00	1975.00 110.00
				$ 2115.00
1975.00 110.00		[illegible] 1 | 02651 [illegible]		

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF

INVOICE

842600421

112

300

ACCOUNTS PAYABLE DISTRIBUTION — USE BLACK INK

C112715

PURCHASE ORDER NUMBER	REQ. DATE	VENDOR NO.	INV. DATE	DISCOUNT
362555	09 05 77	0139906	09 07 77	

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT	NET AMOUNT
8-101			2365 00

ROM	R – NOT REQUIRED P – PRESENT R – REQ./NOT PRESENT	Cont.	CHECK	APPROVAL ID	MANUAL CHECK	SPEC.	TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT
N		N		1 61263			

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	SIC CODE	AMOUNT
		90750	362	10237	226	01081	236500

CODED BY	EMPLOYEE NO.	INFORMATION TO BE ENTERED ON CHECK STUB MUST TO EXCEED 240 CHARACTERS	TOTAL DISTRIBUTION
LL	01564	SEP 19 1977	2365 00

VENDOR CODE

842600422

Scientific Chemical Processing, Inc.

411 WILSON AVENUE, NEWARK, NEW JERSEY 07105
Telephone (201) 589-7777

SOLD TO
Ashland Chemical Co.
400 Doremus Ave.
Newark, N.J. 07105
Attn: Milt Goldberg

INVOICE NO: 8-101
DATE: 8-26-77

SHIP TO ☐ PICK UP AT ☐
(SAME AS SOLD TO UNLESS INDICATED)

SALES ORDER #	YOUR ORDER NO.	TERMS NET 10 DAYS	SHIPPED VIA		PPD	COLL
H-98	362-5537	Net 10 Days	SCP	8-25-77	X	

QTY. APPROXIMATE	QTY. ACTUAL	DESCRIPTION	PRICE	AMOUNT
1 T/L	68 drums	Waste Removed	$25/dr	$1700.00
	105 pails	Waste Removed	$5/pl	$ 525.00
1 T/L	1 T/L	Transportation	$140	$ 140.00
				$2365.00

RECEIVED CALCULATIONS SEP 16 1977 ASHLAND CHEMICALS

RECEIVED ACCOUNTS PAYABLE SEP 15 A.M.

Category	Emp. No.
1	06C851
By:	

Category	Emp. No.
1	061263
By: RGDecker	

V1$2225.00
F1$ 140.00

Passed For Payment

RECEIVED SEP 16 1977 CHEMICAL ACCTG.

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON THE REVERSE SIDE HEREOF

Chemical Accounting

842600423

Scientific Chemical Processing, Inc

411 WILSON AVENUE, NEWARK, NEW JERSEY 07105

Telephone (201) 589-7777

INVOICE NO. B-101

DATE 8-26-77

SOLD TO: Ashland Chemical Co.
500 Doremus Ave.
Newark, N.J. 07105
Attn: Milt Goldberg

SHIP TO ☐ SAME AS SOLD TO UNLESS OTHERWISE STATED

H-98	362-5537	Net 10 Days	SCP	8-25-77	X
1 T/L	68 drums	Waste Removed	$25/dr		$1700.00
	105 pails	Waste Removed	$5/pl		$ 525.00
1 T/L	1 T/L	Transportation	$140		$ 140.00
					$2365.00
$2225.00					
$ 140.00					

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF

INVOICE

842600424

1131

300

ACCOUNTS PAYABLE DISTRIBUTION — (BLACK INK)

C112714

PURCHASE ORDER NUMBER	MO.	DAY	YR.	VENDOR NO.	MO.	DAY	YR.
362553	09	04	77	01398	06	30	77

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT	NET AMOUNT
8-97			2360.00

RCRD	N – NOT REQUIRED / P – PRESENT / R – REQ./NOT PRESENT	Qual. CERTIFICATION	APPROVAL ID	MANUAL CHECK	SPEC.	TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT
N	N	N	1 61263			

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	B/C CODE	AMOUNT
		007500	362	810237	236	01010	2360.00

CODED BY	EMPLOYEE NO.	INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)	TOTAL DISTRIBUTION
W	015654		2360.00

SEP 19 1977

VENDOR CODE

842600425

Scientific Chemical Processing, Inc.
411 WILSON AVENUE, NEWARK, NEW JERSEY 07105
Telephone (201) 589-7777

SOLD TO
Ashland Chemical
400 Doremus Ave.
Newark, N.J. 07105
Attn: Milt Goldberg

INVOICE NO: 8-97
DATE: 8-25-77
SHIP TO ☐ PICK UP AT ☐
SAME AS SOLD TO UNLESS INDICATED

SALES ORDER #	YOUR ORDER NO.	TERMS NET 10 DAYS	SHIPPED VIA		PPD COLL
H-95	362-5537	Net 10 Days	BCP	8-24-77	X

QTY. APPROXIMATE	QTY. ACTUAL	DESCRIPTION	PRICE	AMOUNT
1 T/L	87 drums	Waste Removed	$25/dr	$2175.00
		Delay 9:00-2:00= ~~5~~ 3 hrs	$15/hr	~~$ 75.00~~ $ 60.00
1 T/L	1 T/L	Transportation	$140/ld	$ 140.00
				$2375.00
				2360.00

EXAMINED AND COMPARED
ASHLAND CHEMICALS
SEP 16 1977

Category 1 Emp. No. 061263 By: RG Decker

RECEIVED ACCOUNTS PAYABLE SEP 7 1977

Category 1 Emp. No. 061251 By: [illegible]

V1$2175.00
P1$ 200.00

Passed For Pay

RECEIVED SEP 16 1977 CHEMICAL ACCTG.

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF

Chemical Accounting INVOICE

842600426

Scientific Chemical Processing Inc

441 WILSON AVENUE NEWARK NEW JERSEY 07105

Telephone (201) 589 7777

SOLD TO
Ashland Chemical
400 Doremus Ave.
Newark, N.J. 07105
Attn: Milt Goldberg

INVOICE NO 8-97

DATE 8-25-77

SHIP TO ☐ PICK UP AT ☒

SAME AS SOLD TO UNLESS INDICATED

8-95	362-5537	Net 10 Days	80#	8-25-77	X
1 T/L	87 drums	Waste Removed		$25/dr	$2175.00
1 T/L	1 T/L	Delay 9:00-2:00= 5 hrs		$15/hr	60.00
		Transportation		$160/Ld	160.00
					$2375.00
					2160
1	0L6811				
1$2175.00					
1$ 200.00					

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF

INVOICE

842600427

(114.)

SRO

ACCOUNTS PAYABLE DISTRIBUTION — USE BLACK INK

PURCHASE ORDER NUMBER	BUY DATE MO. DAY YR.	VENDOR NO.	INVOICE DATE MO. DAY YR.	DOCUMENT NUMBER (If more than one)
6571	03 24 78	139906	03 03 78	D185269

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT	NET AMOUNT
3-47			4456.25

ROM	N - NOT REQUIRED / P - PRESENT / R - REQ. NOT PRESENT	Chng	APPROVAL ID	MANUAL CHECK	SPEC.	TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT
N		N	106263			

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	R/C CODE	AMOUNT
		0075 00	362	P1057	226	0105 10	4456.25

CODED BY	EMPLOYEE NO.	INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)	TOTAL DISTRIBUTION
W	015654		4456.25

MAR 28 1978

VENDOR

842600428

S C P

SCIENTIFIC CHEMICAL PROCESSING, INC.

611 WILSON AVENUE, NEWARK, NEW JERSEY 07105

(201) 589-7777

INVOICE NO: 3-47

DATE 3-13-78

SOLD TO: Ashland Chemical Co.
Resin & Plastics Division
400 Doremus Ave.
Newark, N.J. 07105

RECEIVED Payment
Passed FED BY
MAR 22 1978
Chemical Accounting

SHIP TO ☐ PICK UP AT ☐
CHARGE SOLD TO UNLESS INDICATED

SALES ORDER #	YOUR ORDER NO.	TERMS NET 10 Days	SHIPPED VIA SCP	PKG	COLL
C-144	302-C-541			I	

QTY APPROXIMATE	QTY. ACTUAL	DESCRIPTION	PRICE	AMOUNT
2 T/L	78 drums	Waste Removed 3-7-78	$25/dr	$1950.00
		Delay 3:15-5:45- 1 Hr	$15/hr	$ 15.00
	88 drums	Waste Removed - 3-9-78	$25/dr	$2200.00
		Delay 2:00-4:15- 3/4 HR	$15/hr	$ 11.25
2 T/L	2 T/L	Transportation	$110/Td	$ 280.00
				$4456.25

RECEIVED
ACCOUNTS PAYABLE
MAR 27 1978

1 06126

MAR 27 1978

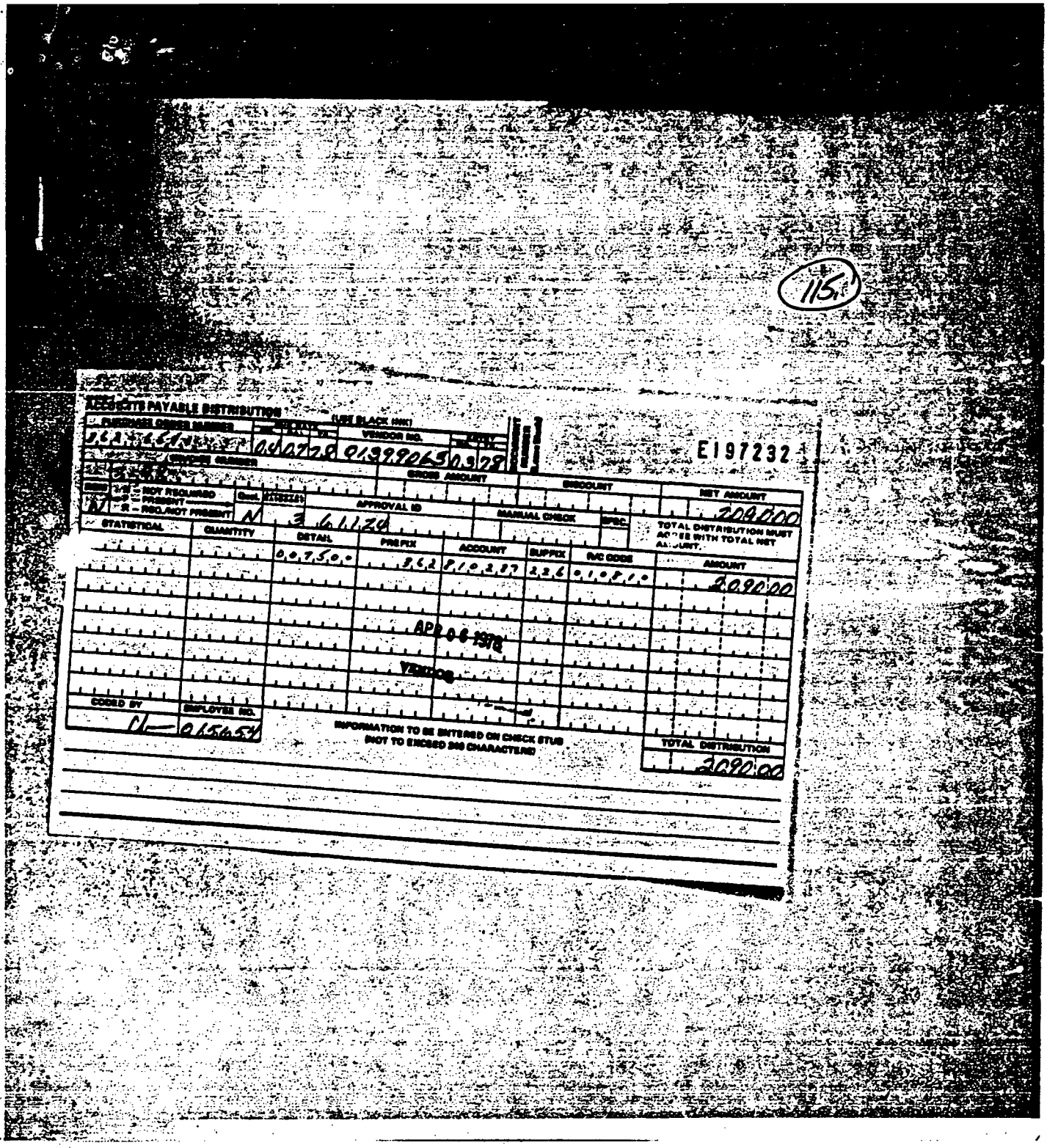
ASHLAND CHEMICAL INC.
06263
R.G. Denton

V1SL150.00
F14 306.25

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF

INVOICE

842600429



(115)

ACCOUNTS PAYABLE DISTRIBUTION

(USE BLACK INK)

VENDOR NO. 0139906503978

E197232

GROSS AMOUNT 209000

DISCOUNT

NET AMOUNT 209000

APPROVAL ID 3 6 1 20

MANUAL CHECK

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	R/C CODE	AMOUNT
		0075	562	5103977	226	0101	209000

APR 06 1978

Vendor

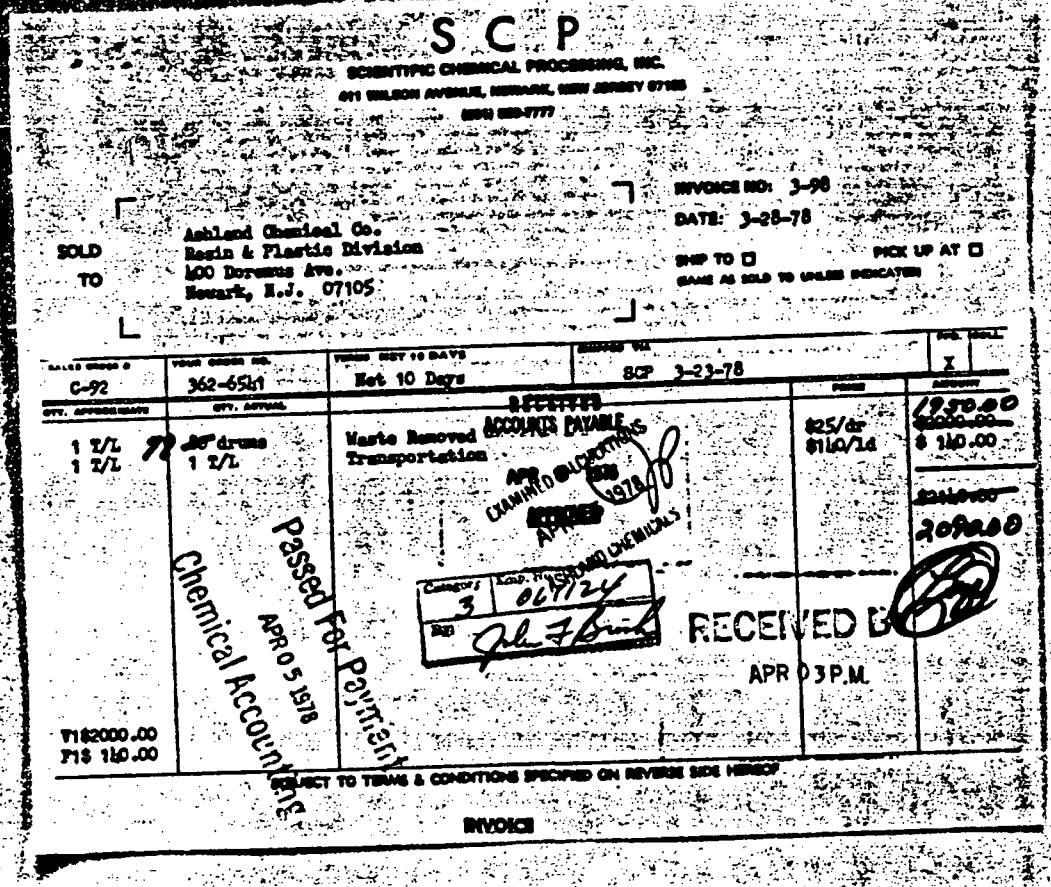
CODED BY

EMPLOYEE NO. 015654

INFORMATION TO BE ENTERED ON CHECK STUB
(NOT TO EXCEED 240 CHARACTERS)

TOTAL DISTRIBUTION 2090.00

842600430



SCP

SCIENTIFIC CHEMICAL PROCESSING, INC.

SOLD TO
Ashland Chemical Co.
Resin & Plastic Division
400 Doremus Ave.
Newark, N.J. 07105

INVOICE NO: 3-98
DATE: 3-28-78

SHIP TO ☐ PICK UP AT ☐
SAME AS SOLD TO UNLESS INDICATED

SALES ORDER #	YOUR ORDER NO.	TERMS: NET 10 DAYS	SHIPPED VIA	DEL. COLL.
C-92	362-65k1	Net 10 Days	SCP 3-23-78	X

QTY. APPROXIMATE	QTY. ACTUAL		PRICE	AMOUNT
1 T/L	1 20 drums	Waste Removed	$25/dr	$1250.00
1 T/L	1 T/L	Transportation	$110/1d	$ 140.00
				$2090.00

RECEIVED BY
APR 0 3 P.M.

Passed For Payment
APR 05 1978
Chemical Accounting

T1$2000.00
T1$ 140.00

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF

INVOICE

842600431

(117)

ACCOUNTS PAYABLE DISTRIBUTION (USE BLACK INK)

C202243

PURCHASE ORDER NUMBER	P/O SUF.	VENDOR NO.	ENTRY DA	ENTRY YR
3,6,3-,6,6,4,1,	CH	0978013990638	04	78

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT	NET AMOUNT
3-139			2090.00

ROM	N – NOT REQUIRED / P – PRESENT / R – REQ NOT PRESENT	Cust.	APPROVAL ID	MANUAL CHECK	SPEC.	TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT
	N		3 6 1 24			

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	R/C CODE	AMOUNT
		0,0,7,5,0	5,6,1	5,1,0,5,7	2,3,6	0,1,0,5,1,0	2090.00

CODED BY	EMPLOYEE NO.	INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)	TOTAL DISTRIBUTION
LL	015639		2090.00

APR 18 1978

VENDOR

842600432

S C P

SCIENTIFIC CHEMICAL PROCESSING, INC.

411 WILSON AVENUE, NEWARK, NEW JERSEY 07105

(201) 589-7777

SOLD TO: Ashland Chemical Co.
Resin & Plastics Division
100 Doremus Ave.
Newark, N.J. 07105

INVOICE NO: 3-138

DATE: 3-30-78

SHIP TO ☐ PICK UP AT ☐
(SAME AS SOLD TO UNLESS INDICATED)

SALES ORDER #	YOUR ORDER NO.	TERMS NET 10 DAYS	SHIPPED VIA	PPD	COLL.
C-131	362-65w1	Net 10 Days	SCP 3-28-78		X

QTY. APPROXIMATE	QTY. ACTUAL	DESCRIPTION	PRICE	AMOUNT
1 T/L	78 drums	Waste Removed	$25/dr	$1950.00
1 T/L	1 T/L	Transportation	$140/ld	$ 140.00
				$2090.00

RECEIVED BY
APR 10 A.M.

3 061124

RECEIVED
ACCOUNTS PAYABLE
APR 11 1978

APR 11 1978
ASHLAND CHEMICAL

T1 $1950.00
T2 140.00

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF

INVOICE

842600433

(1295)

1271575

ACCOUNTS PAYABLE DISTRIBUTION

(USE BLACK INK)

PURCHASE ORDER NUMBER	DUE DATE MO	DAY	YR	VENDOR NO	ENTRY MO	YR	DOCUMENT NUMBER
26-6541	12	21	78	01 399043	03	79	

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT		NET AMOUNT
12-30				20000

ROM: N - NOT REQUIRED; P - PRESENT; R - REQUIRED/NOT PRESENT

Qual	APPROVAL NUMBER	MANUAL CHECK	SPEC
M	16263		

TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT.

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	B/C CODE		AMOUNT
		310005	364	810337	226	010510	-	20000
							-	
							-	
							-	
							-	
							-	
							-	
							-	

CODED BY	EMPLOYEE NO.	INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)	TOTAL DISTRIBUTION
MM	011265		20000

APR 09 1979

VENDOR CODE

842600434

S C P

SCIENTIFIC CHEMICAL PROCESSING, INC.
411 GIBBON AVENUE, NEWARK, NEW JERSEY 07105
(201) 589-7777

PLEASE PAY ON THIS INVOICE

SOLD TO: Ashland Chemical Co.
Drain & Plastics Division
[illegible]
[illegible], N.J. 07105
Attn: Mr. R. Lisco

INVOICE NO: [illegible]
DATE: 12-12-78
SHIP TO ☐ PICK UP AT ☐
SAME AS SOLD TO UNLESS INDICATED

DATE SHIPPED	YOUR ORDER NO.	TERMS NET 10 DAYS	SHIPPED VIA	PPD. COLL.
1-30	360-(52)	Net 30 Days	SCP	X

QTY APPROXIMATE	QTY ACTUAL	DESCRIPTION	PRICE	AMOUNT
5 2/L	5 2/L	Waste Resin Removal 12-8-78 (2) 12-11-78 (3)	[illegible]	$ [illegible] 200.00

Removal
5808

RECEIVED
APR 05 1979
ASHLAND CHEMICAL

Pay $200.00 for shipment on 12-8-78.
Balance payable by Spencer Kellogg
RGD

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF

DELIVERY DATE REQUESTED: APR 04 1979

Copy to Paul Reinwald

RECEIVED BY

SPECIAL INSTRUCTIONS

DRIVER IS NOT TO ACCEPT A LOAD UNLESS FURNISHED WITH A BILL OF LADING SIGNED BY THE SHIPPER.

CUSTOMER FILE

842600435

S C P

SCIENTIFIC CHEMICAL PROCESSING, INC.

411 WILSON AVENUE, NEWARK, NEW JERSEY 07105

(201) 589-7777

INVOICE NO: 12-30

DATE: 12-12-78

SHIP TO ☐ PICK UP AT ☐

(IF NOT AS SOLD TO UNLESS INDICATED)

SOLD TO

Ashland Chemical Co.
Resin & Plastics Division
400 Doremus Ave.
Newark, N.J. 07105

Attn: Mr. R. Lisso

YOUR ORDER NO.	TERMS NET 10 DAYS	SHIPPED VIA	PPD.	COLL.
L-30	362-6541	Net 10 Days	SCP	X

QTY APPROXIMATE	QTY ACTUAL	DESCRIPTION	PRICE	AMOUNT
5 T/L	5 T/L	Waste Resin Removed 12-8-78 (2) 12-11-78 (3)	$100/Td	$ 500.00

FROM
ASHLAND CHEMICAL COMPANY
400 DOREMUS AVENUE
NEWARK, NJ
CUST PICK UP
Carrier

Date
12-8-78

Ashland

ASHLAND CHEMICAL COMPANY
Division of Ashland Oil, Inc.

STRAIGHT BILL OF LADING
(Non Transit) SHORT FORM
MEMORANDUM

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is hereby agreed, as to each carrier of all or any part of said property over all or any portion of said route to destination and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back hereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SCIENTIFIC
411 WILSON AVENUE
NWK, NJ

Mail or Street Address of Consignee for purpose of identification only

12/8/78

CUST PICK UP

CAR OR VEHICLE INITIAL AND NO

ARTICLE NO.	DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	WEIGHT (Subject to Correction)	CLASS OR RATE	CHECK COLUMN
1	DRS RESIN SOLUTION	accepted 71360 71360 accepted		

IN THE EVENT OF ANY EMERGENCY

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

ASHLAND CHEMICAL COMPANY

(Signature of Consignor)

If charges are to be Prepaid write here "Prepaid"

COLLECT

Received $ ____ to apply in prepayment of the charges on the property described hereon.

Agent or Cashier

Per ____
(The signature here acknowledges only the amount prepaid.)

Charges advanced:

$ ____

The fibre boxes or tubes used for this shipment conform to requirements of Rule 5.40 and 41 of Consolidated Freight Classification

The description and weight indicated on this bill of lading are correct subject to verification by the APPROPRIATE WEIGHING AND INSPECTION BUREAU according to agreement

If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is carrier's or shipper's weight. Note—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ per

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Shipper

Sell a bill of lading when issued in a form to expedite the transfer or control of property but refuse to accept for payment in behalf of carrier.

Carrier certifies that the cargo here supplied for this shipment is a proper container for the transportation of this commodity.

Per ____

ASHLAND C

842600437

FROM
ASHLAND CHEMICAL COMPANY
400 DOMINGUES AVENUE
NEWARK, NJ
CUST PICK UP
Carrier

Date
12-8-78

Shipper's Number

ASHLAND CHEMICAL COMPANY
Division of Ashland Oil Inc

STRAIGHT BILL OF LADING
(Non Transit) SHORT FORM
MEMORANDUM

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is agreed, as to each carrier of all or any part of said property, over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back hereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

CONSIGNED TO
SCIENTIFIC CHEMICAL
411 WILSON AVENUE
NEWARK, NEW JERSEY

Mail or Street Address of Consignee for purpose of identification only

12/5/78

ROUTE
CUST PICK UP

DELIVERING CARRIER

CAR OR VEHICLE INITIAL AND NO

QUANTITY	HM	DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	WEIGHT (Subject to Correction)	CLASS OR RATE	CHECK COLUMN
16 DRS		RESIN SOLUTION	6134 U 3195 U 2939 U		

IN THE EVENT OF ANY EMERGENCY
CONCERNING THE PRODUCT IN THIS
SHIPMENT, CALL TOLL FREE [illegible]
800 424 9300, DAY OR NIGHT

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

ASHLAND CHEMICAL COMPANY
(Signature of Consignor)

If charges are to be Prepaid write here "Prepaid"

COLLECT

Received $ _____ to apply in prepayment of the charges on the property described hereon.

Agent or Cashier

Per _____
(The signature here acknowledges only the amount prepaid.)

Charges advanced

$ _____

*The rate, basis, or class used for this shipment conform to representations of Rule 5 and 41 of Consolidated Freight Classification.

The description and weight indicated on this bill of lading are correct subject to correction by the APPROPRIATE INSPECTING AND INSPECTION BUREAU according to agreement.

*If this shipment moves between two ports by a carrier by water, the law requires that this bill of lading shall state whether it is carrier's or shipper's weight. Notwithstanding this note is intended as value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ _____ per _____

This is to certify that the above named materials are properly classified described packaged marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Not a bill of lading when issued by a vehicle operated by shipper or owner of product, but merely a receipt for product in tanker of shipper.

Carrier certifies that the cargo tank supplied for this shipment is a proper container for the transportation of this commodity.

SIGNATURE

ASHLAND CHEMICAL COMPANY, Address
400 DOMINGUES AVENUE NEWARK, NJ

Permanent post office address of shipper

842600438

FROM
ASHLAND CHEMICAL COMPANY
400 DORSHIRE AVENUE
NEWARK, NJ

CUST PICK UP — Carrier

Date
12-8-78

Shipper's Number

Ashland.
ASHLAND CHEMICAL COMPANY
Division of Ashland Oil, Inc.

STRAIGHT BILL OF LADING
(Non Transit) SHORT FORM
MEMORANDUM

RECEIVED subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own road or its own water line, otherwise to deliver to another carrier on the route to said destination. It is agreed, as to each carrier of all or any part of said property over all or any portion of said route to destination and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back hereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

CONSIGNED TO
SCIENTIFIC CHEMICAL
411 WILSON AVENUE
NEWARK, NEW JERSEY

Mail or Street Address of Consignee for purpose of identification only

12/8/78

ROUTE CUST PICK UP

DELIVERING CARRIER

CAR OR VEHICLE INITIAL AND NO

QUANTITY	HM	DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	WEIGHT (Subject to Correction)	CLASS OR RATE	CHECK COLUMN
76 DRS		RESIN SOLUTION	28140		

IN THE EVENT OF ANY EMERGENCY CONCERNING THE PRODUCT IN THIS SHIPMENT, CALL TOLL FREE NUMBER 800 424 9300, DAY OR NIGHT.

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges

ASHLAND CHEMICAL COMPANY

(Signature of Consignor)

If charges are to be Prepaid write here "Prepaid"

COLLECT

Received $ ___ to apply in prepayment of the charges on the property described hereon

Agent or Cashier

Per ___
(The signature here acknowledges only the amount prepaid.)

Charges advanced

$ ___

The rate, basis or basis used for this shipment conforms to requirements of Rule 5-B and 41 of Consolidated Freight Classification

The description and weight indicated on this bill of lading are correct subject to verification by the CONSIGNEE WEIGHING AND INSPECTION BUREAU assigning to agreement

If the shipment moves between two ports by a carrier by water, the law requires that this bill of lading shall state whether it is carrier's or shipper's weight. Note—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ per

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation

Not a bill of lading unless issued on a company approved by shipper or owner of product, but merely a receipt for product on behalf of owner.

Carrier certifies that the cargo tank inspected for this shipment is a proper container for the transportation of this commodity

Carrier or Agent

842600439

FROM
ASHLAND CHEMICAL COMPANY
400 DOREMUS AVENUE
NEWARK, NJ

CUST PICK UP — Carrier

Date
12-8-78

Shipper's Number

Ashland.
ASHLAND CHEMICAL COMPANY
Division of Ashland Oil, Inc.

STRAIGHT BILL OF LADING
(Non Transit) SHORT FORM
MEMORANDUM

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is hereby agreed, as to each carrier of all or any part of said property, over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back hereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Mail or Street Address of Consignee for purpose of identification only

SCIENTIFIC CHEMICAL
411 WILSON AVENUE
NEWARK, NJ

CUST PICK UP

12/18/78

CAR OR VEHICLE INITIAL AND NO

	DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	*WEIGHT (Subject to Correction)	CLASS OR RATE	CHECK COLUMN	
DRC	CAUSTIC SOLUTION				

IN CASE OF EMERGENCY

Subject to Section 7 of conditions of this shipment as to the delivery of this consignment without recourse on the consignor, the consignor shall sign the following statement:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

ASHLAND CHEMICAL COMPANY

(Signature of Consignor)

If charges are to be Prepaid type here: Prepaid

COLLECT

Received $
to apply in prepayment of the charges on the property described hereon.

Agent or Cashier

Per
(The signature here acknowledges only the amount prepaid.)

Charges advanced

$

This bill bears no stacks used for this shipment conforms to requirements of Rule 5-01 and 41 of Consolidated Freight Classification

The description and weight indicated on this bill of lading are correct subject to verification by the APPROPRIATE WEIGHING AND INSPECTION BUREAU according to agreement

*If the shipment moves between two ports by a carrier by water, the law requires that this bill of lading shall state whether it is "carrier's or shipper's weight." Note—Where the rate is dependent on value, shippers are required to state specifically, in writing, the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ per

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

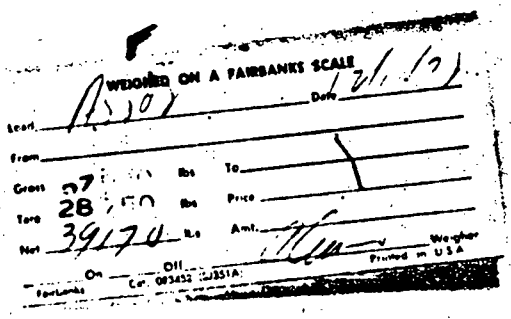
Not a bill of lading when moved in a vehicle owned by shipper or owner of product, but merely a receipt for product on behalf of owner.

Carrier certifies that the cargo tank supplied for this shipment is a proper container for the transportation of this commodity.

SIGNATURE

ASHLAND CHEMICAL COMPANY, Division

842600440


WEIGHED ON A FAIRBANKS SCALE
Load
Date
From
To
Gross
Tare
Net
Price
Amt.
Weigher
Printed in U.S.A.
On
Off
FairLanks

842600441

ASHLAND CHEMICAL COMPANY
400 DONDEE AVENUE
NEWARK, NJ
CUST PICK UP

Date: XXXX 12-6-78

Shipper's Number:

Ashland.
ASHLAND CHEMICAL COMPANY
Division of Ashland Oil, Inc.

STRAIGHT BILL OF LADING
(Non Transit) SHORT FORM
MEMORANDUM

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is agreed, as to each carrier of all or any part of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or a rail-water shipment, or (2) in the applicable motor carrier classification or tariff, if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

CONSIGNED TO: SCIENTIFIC CHEMICAL
411 WILSON AVENUE
NEWARK, NEW JERSEY

Mail or Street Address of Consignee for purpose of identification only

FOR: CUST PICK UP

DELIVERING CARRIER: CAR OR VEHICLE INITIAL AND NO.

NO. PKGS	KIND OF PACKAGE, DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	WEIGHT (Subject to Correction)	CLASS OR RATE	CHECK COLUMN
DRS	RESIN SOLUTION			

IN THE EVENT OF ANY EMERGENCY INVOLVING THIS SHIPMENT CALL CHEMTREC TOLL FREE NUMBER 800-424-9300 DAY OR NIGHT.

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

ASHLAND CHEMICAL COMPANY

(Signature of Consignor)

If charges are to be Prepaid type here "Prepaid"

COLLECT

Received $ to apply in prepayment of the charges on the property described hereon.

Agent or Cashier

Per (This signature here acknowledges only the amount prepaid.)

Charges advanced

$

The fibre boxes or sacks used for this shipment conform to the specifications of Rule 5 and 41 of Consolidated Freight Classification.

The description and weights indicated on this bill of lading are correct subject to classification by the APPROPRIATE WEIGHING AND INSPECTION BUREAU according to agreement.

If this shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." Note—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ per

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Note: A bill of lading which is issued by a carrier's agent must be signed by the shipper or owner of product. Such signing is needed for protection of carrier.

Carrier certifies that the cargo here described for this shipment is a proper commodity for the transportation of this commodity.

SIGNATURE

ASHLAND CHEMICAL COMPANY, SHIPPER
400

AGENT

842600442

FROM
ASHLAND CHEMICAL COMPANY
400 DOREMUS AVENUE
NEWARK, NJ

CUST PICK UP
Carrier

Date
XXXX 12-9-78
11

Shipper's Number

Ashland.
ASHLAND CHEMICAL COMPANY
Division of Ashland Oil, Inc.

STRAIGHT BILL OF LADING
(Non Transit) SHORT FORM
MEMORANDUM

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is hereby agreed, as to each carrier of all or any part of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

CONSIGNED TO:
SCIENTIFIC CHEMICAL
411 WILSON AVENUE
NEWARK, NEW JERSEY

Main or Street Address of Consignee
for purpose of identification only

ROUTE CUST PICK UP

12/11/78

DELIVERING CARRIER

CAR OR VEHICLE
INITIAL AND NO

QUANTITY	HM	DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	WEIGHT (Subject to Correction)	CLASS OR RATE	CHECK COLUMN
11	DRS	RESIN SOLUTION	7120 137 — 7257		

IN THE EVENT OF ANY EMERGENCY
CONCERNING THE PRODUCT IN THIS
SHIPMENT CALL TOLL-FREE (800) 424-9300
DAY OR NIGHT

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

ASHLAND CHEMICAL COMPANY

(Signature of Consignor)

If charges are to be Prepaid type here "Prepaid"

COLLECT

Received $ _____ to apply in prepayment of the charges on the property described hereon.

Agent or Cashier

Per _____
(The signature here acknowledges only the amount prepaid.)

Charges advanced

$ _____

*The rate stated in capital letters is specified by the carrier or shipper to be the rate per ton of 2000 pounds, unless some other weight per ton is stated in connection with such rate.

The description and weight indicated on this bill of lading are agreed subject to verification by the APPROPRIATE WEIGHING AND INSPECTION BUREAU according to agreement.

**If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." Note—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ per

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Rail or bill of lading when issued in a carload approved by shipper or owner of product that money is allowed for product in behalf of owner.

Carrier certifies that the rates were published for this shipment, or a proper application for the transportation of this commodity.

SIGNATURE

ASHLA

842600443

96.

200

ACCOUNTS PAYABLE DISTRIBUTION — USE BLACK INK

F147099

PURCHASE ORDER NUMBER	RECEIVE	VENDOR NO.	ENTRY
3624654	11277	0139063	1277

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT	NET AMOUNT
11-65			315.00

RCRR	R – NOT REQUIRED / P – PRESENT / R – REQ/NOT PRESENT	Cust.	APPROVAL ID	MANUAL CHECK	SPEC	TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT
A	N		N061263			

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	RAC CODE	AMOUNT
		007500	661	810397	326	000100	315.00

CODED BY	EMPLOYEE NO.	INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)	TOTAL DISTRIBUTION
	1-015454		315.00

DEC 88

VENDOR CODE

842600444

Scientific Chen..... Processing, Inc.
411 WILSON AVENUE, NEWARK, NEW JERSEY 07105
Telephone (201) 589-7777

INVOICE NO: 11-65
DATE: 11-17-77

SOLD TO: Ashland Chemical
400 Doremus Ave.
Newark, N.J. 07105

SHIP TO ☐ PICK UP AT ☐
SAME AS SOLD TO UNLESS INDICATED

SALES ORDER #	YOUR ORDER NO.	TERMS: NET 10 DAYS	SHIPPED VIA	QTY.	CALL
X-65	362-6561	Net 10 Days	SCP 11-16-77	X	

QTY. APPROVED	QTY. ARRIVED	DESCRIPTION	PRICE	AMOUNT
1 T/L	72 drums	Waste Removed	$25/dr	$1800.00
	75 pails	Up to	$5/ea.	$ 375.00
1 T/L	1 T/L	Transportation	$140/TL	$ 140.00
				$2315.00

EXAMINED CALCULATIONS
DEC 08 1977
ASHLAND CHEMICALS

RECEIVED BY
DEC 02 P.M.

Passed For Payment
DEC 08 1977

Comp. No. 06263
By: RG Dent

RECEIVED
DEC 08 1977

RECEIVED BY
DEC 8 P.M.

W 2175.00
T 140.00

Chemical & ... CHEMICAL ACCTS. INVOICES

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE

842600445

0 2 3 3

(98)

300

ACCOUNTS PAYABLE DISTRIBUTION (USE BLACK INK)

F156185

PURCHASE ORDER NUMBER	INV. RCVD DATE (Mo. Day Yr.)	VENDOR NO.	ENTRY DATE (Mo. Yr.)	DOCUMENT NUMBER (Leave Blank)
362654	12 18 77	0139906512	77	

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT	NET AMOUNT
12345			212625

1099	W – NOT REQUIRED / P – PRESENT / R – REQ. NOT PRESENT	Cont.	APPROVAL ID	MANUAL CHECK	SPEC.	TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT.
	N		61124			

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	B/C CODE	AMOUNT
		007500	362	5102377	226	01051.0	212625

CODED BY	EMPLOYEE NO.	INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)	TOTAL DISTRIBUTION
KH	20562		212625

JAN 03 1978

VENDOR

842600445 A

Scientific Chemical Processing, Inc.

411 WILSON AVENUE, NEWARK, NEW JERSEY 07105
Telephone (201) 589-7777

SOLD TO: Ashland Chemical
400 Doremus Ave.
Newark, N.J. 07105

INVOICE NO: 12-13
DATE: 12-9-77

SHIP TO ☐ PICK UP AT ☐
(SAME AS SOLD TO UNLESS INDICATED)

SALES ORDER #	YOUR ORDER NO.	TERMS NET 10 DAYS	SHIPPED VIA	FRT. COLL.
L-13	362-6541	Net 10 Days	SCP 12-8-77	X

QTY. APPROXIMATE	QTY. ACTUAL	DESCRIPTION	PRICE	AMOUNT
79 drums	79 drums	Waste Removed	$25/dr	$1975.00
		Delay 9:30-11:45= 3/4 hrs	$15/hr	$ 11.25
1 T/L	1 T/L	Transportation	$140/1d	$ 140.00
				$2126.25

Category 1 Job No. 061263
By RG Decker

Category 1 Job No. 10624
By

RECEIVED DEC 20 A.M.
EXAMINED CALCULATIONS
DEC 27 1977
ASHLAND CHEMICALS

RECEIVED
ACCOUNTS PAYABLE
DEC 19 1977

DEC 1 9

VT $1975.00
PT $ 151.25

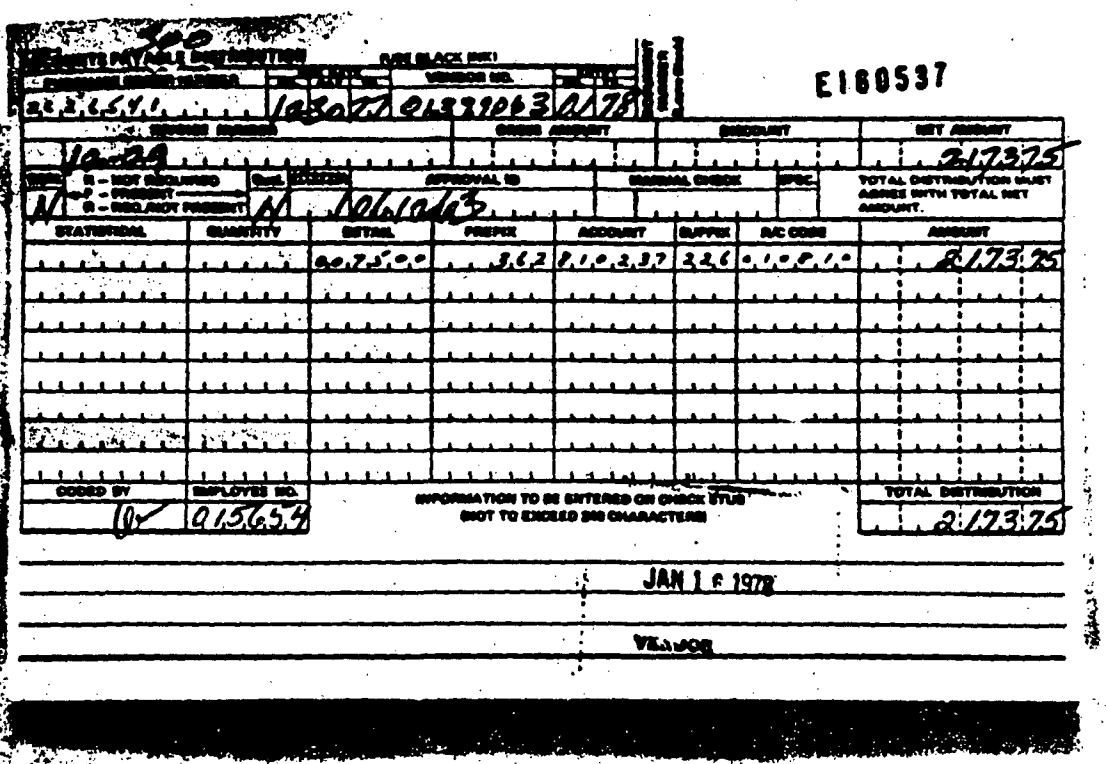
SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF

APPROVED
INVOICE
DEC 3

ALLIS

842600446

100.



E160537

2 2 3 6 5 4 1	1 2 3 0 7 1	0 1 3 3 1 0 1 3	0 1 7 8				
1 2 - 2 9							2 1 7 3 7 5
W	M	1 2 / 1 0 / 7 3					

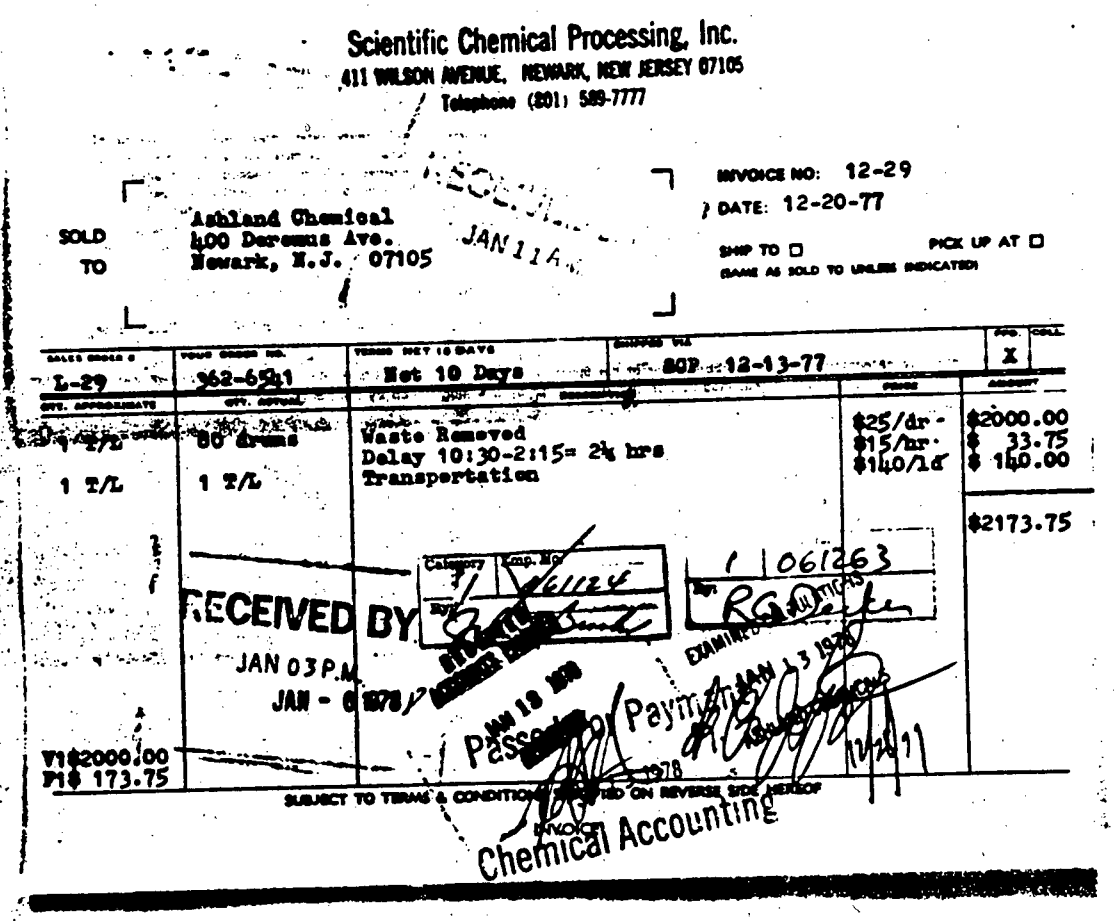
STATE/LOCAL	QUANTITY	RETAIL	PREFIX	ACCOUNT	SUFFIX	B/C CODE	AMOUNT
		8 0 7 5 0 0	3 6 2	0 1 0 3 3 7	3 2 6	0 1 0 0 1 0	2 1 7 3 7 5

CODED BY	EMPLOYEE NO.	INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 200 CHARACTERS)	TOTAL DISTRIBUTION
[illegible]	0 1 5 6 5 4		2 1 7 3 7 5

JAN 1 6 1978

VENDOR

842600447



Scientific Chemical Processing, Inc.
411 WILSON AVENUE, NEWARK, NEW JERSEY 07105
Telephone (201) 589-7777

INVOICE NO: 12-29
DATE: 12-20-77

SOLD TO: Ashland Chemical
400 Doremus Ave.
Newark, N.J. 07105

JAN 11 A

SHIP TO ☐ PICK UP AT ☐
(SAME AS SOLD TO UNLESS INDICATED)

SALES ORDER #	YOUR ORDER NO.	TERMS NET 10 DAYS	SHIPPED VIA	PRO.	COLL.
L-29	362-6541	Net 10 Days	SCP 12-13-77	X	

QTY. APPROXIMATE	QTY. ACTUAL	DESCRIPTION	PRICE	AMOUNT
1 T/L	80 drums	Waste Removed	$25/dr -	$2000.00
		Delay 10:30-2:15= 2¼ hrs	$15/hr -	$ 33.75
1 T/L	1 T/L	Transportation	$140/ld	$ 140.00
				$2173.75

RECEIVED BY
JAN 03 P.M.
JAN - 6 1978

Category 1 | Comp. No. 061263

JAN 13 1978

Passed for Payment JAN 13 1978

V1$2000.00
P1$ 173.75

SUBJECT TO TERMS & CONDITIONS PRINTED ON REVERSE SIDE HEREOF

INVOICE

Chemical Accounting

842600448

(103)

300

ACCOUNTS PAYABLE DISTRIBUTION (USE BLACK INK)

F176006

PURCHASE ORDER NUMBER	SUF	RELEASE DATE	TA	VENDOR NO.	SUF	ENTRY TYPE
362654.1		01 19 78		013990	63	278

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT	NET AMOUNT
13-49			2690.00

SUM	R – NOT REQUIRED / P – PRESENT / R – REQ./NOT PRESENT	Cash	INTERIM	APPROVAL ID	MANUAL CHECK	SPEC.	TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT
N		N		MCCAIG3			

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	B/C CODE	AMOUNT
		0075.00	362	5102237	326	01051.0	2090.00

1978

CODED BY	EMPLOYEE NO.	INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)	TOTAL DISTRIBUTION
	015654		2090.00

842600449

SCP

SCIENTIFIC CHEMICAL PROCESSING, INC.
411 WILSON AVENUE, NEWARK, NEW JERSEY 07105
(201) 589-7777

PLEASE PAY ON THIS INVOICE

Passed For Payment
FEB 13 1978
Chemical Accounting

INVOICE NO: 13-49
DATE: 1-9-78

SOLD TO
Ashland Chemical
400 Doremus Ave.
Newark, N.J. 07105

SHIP TO ☐ PICK UP AT ☐
SAME AS SOLD TO UNLESS INDICATED

SALES ORDER #	YOUR ORDER NO.	TERMS NET 10 DAYS	SHIPPED VIA	PPD.	COLL.
Mold	362-651	Net 10 Days	SCP 1-3-78	X	

QTY. APPROXIMATE	QTY. ACTUAL	DESCRIPTION	PRICE	AMOUNT
1 T/L	78 drums	Waste Removed	$25/dr	$1950.00
1 T/L	1 T/L	Transportation	$140/Ld	$ 140.00
				$2090.00

Checked by 061263
By R G Decker

Checked by 061120
By

RECEIVED ACCOUNTS PAYABLE FEB 11 1978

APPROVED

EXAMINED FEB 07 1978

FEB 13 1978

ASHLAND CHEMICAL INC. ACCOUNTS PAYABLE FEB 6 1978

APPROVED

V1 $1950.00
J1 $140.00

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF

INVOICE

842600450

Scientific Chemical Processing, Inc.
411 WILSON AVENUE, NEWARK, NEW JERSEY 07105
Telephone (201) 589-7777

INVOICE NO: 11-69
DATE: 11-16-77

SOLD TO: Ashland Chemical
400 Doremus Ave.
Newark, N.J. 07105

SHIP TO ☐ PICK UP AT ☐
(SAME AS SOLD TO UNLESS INDICATED)

SALES ORDER #	YOUR ORDER NO.	TERMS NET 10 DAYS	SHIPPED VIA	PPD.	COLL.
Kahl	369-651	Net 10 Days	SCP 11-16-77	X	

QTY. APPROXIMATE	QTY. ACTUAL	DESCRIPTION	PRICE	AMOUNT
1 T/L	79 drums	Waste Removed	$25/dr	$1975.00
	1 T/L	Transportation	$140/Ld	$ 140.00
				$2115.00

EXAMINED CALCULATIONS
NOV 30 1977
RECEIVED BY
ASHLAND CHEMICAL
NOV 21 P.M.

RECEIVED BY
NOV 28 P.M.

1 06/263
RG Decker

RECEIVED
NOV 29 1977
CHEMICAL ACCTG.

Passed For Payment
NOV 29 1977
Chemical Accounting

T104975.00
T1$140.00

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF
INVOICE

842600451

Scientific Chemical Processing, Inc.
411 WILSON AVENUE, NEWARK, NEW JERSEY 07105
Telephone (201) 589-7777

INVOICE NO 11-49
DATE 11-16-77

SOLD TO: Ashland Chemical
400 Doremus Ave.
Newark, N.J. 07105

SHIP TO ☐ PICK UP AT ☐
(SAME AS SOLD TO UNLESS INDICATED)

CUST. ORDER NO.	YOUR ORDER NO.	TERMS NET 10 DAYS	SHIPPED VIA	F.O.B. POINT
Kelp	362-6541	Net 10 Days	SCP 11-14-77	X

QTY. APPROXIMATE	QTY. ACTUAL	DESCRIPTION	PRICE	AMOUNT
1 L/L	79 drums 1 L/L	Waste Removed Transportation	$25/dr $1160/LL	$1975.00 $ 140.00
				$2115.00
$181975.00 $1160.00				

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF

INVOICE

RECEIVED BY
NOV 28 P.M.

842600452

300

C 31416

ACCOUNTS PAYABLE DISTRIBUTION (USE BLACK INK)

PURCHASE ORDER NUMBER	DUE DATE MO.	DAY	YR.	VENDOR NO.	INV. DT. MO.	YR.	DOCUMENT NUMBER (Leave Blank)
3626541	10	24	77	0139063	10	77	

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT	NET AMOUNT
10-48			4230 00

RCM	N – NOT REQUIRED / P – PRESENT → / R – REQ./NOT PRESENT	Cont.	AUTHORIZED	APPROVAL ID	MANUAL CHECK	SPEC.	TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT.
N		N		10622902X			

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	R/C CODE	AMOUNT
		007500	362	810237	226	010810	4230 00

OCT 31 1977

VENDOR CODE

CODED BY	EMPLOYEE NO.	INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 300 CHARACTERS)	TOTAL DISTRIBUTION
	015654		4230 00

842600453

Scientific Chemical Processing, Inc.

411 WILSON AVENUE, NEWARK, NEW JERSEY 07105
Telephone (201) 589-7777

SOLD TO: Ashland Chemical
[illegible] Doremus Ave.
Newark, [illegible] 07114

INVOICE NO: 10-48
DATE: 10-14-77
SHIP TO ☐ PICK UP AT ☐
(SAME AS SOLD TO UNLESS INDICATED)

Passed For Payment
Chemical Accounting
OCT 28 1977

SALES ORDER #	YOUR ORDER NO.	TERMS NET 10 DAYS	SHIPPED VIA	PPD	COLL
10-48	362-[illegible] 6541	Net 10 Days	SCP 10-13-77	X	

QTY APPROXIMATE	QTY. ACTUAL	DESCRIPTION	PRICE	AMOUNT
[illegible] T/A	79 drums	Waste Removed 10-13-77	$25/dr	$1975.00
	79 drums	Waste Removed 10-13-77	$25/dr	$1975.00
[illegible] T/A	[illegible] T/A	Transportation	$180/ld	$ 280.00
				$4230.00

RECEIVED BY
OCT 21 1978
ACCOUNTS PAYABLE

RECEIVED
OCT 28 1977
CHEMICAL ACCTG.

RECEIVED
OCT 27 1977
ASHLAND CHEMICALS

K
HMG

OCT 28 1977
ACCOUNTING

[illegible] 3950.00
[illegible] 280.00

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF

INVOICE

842600454

(83)

ACCOUNTS PAYABLE DISTRIBUTION (USE BLACK INK)

J012759

~~F129089~~

PURCHASE ORDER NUMBER	DUE DATE MO.	DUE DATE DA.	DUE DATE YR.	VENDOR NO	ENTRY NO.	ENTRY YR.	DOCUMENT NUMBER (If none Blank)
362537				1015736139063	10	77	

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT	NET AMOUNT
C-157			2145.00

ROM (N = NOT REQUIRED, P = PRESENT, R = REQ/NOT PRESENT)	Qual	APPROVAL ID	MANUAL CHECK	SPEC.	TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT.
N	N	101263			

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	R/C CODE	AMOUNT
		0013	362	810137	226	0058	2145 00

CODED BY	EMPLOYEE NO.	INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)	TOTAL DISTRIBUTION
L	915654		2145 00

00-04-7

VENDOR CODE

842600455

Scientific Chemical Processing, Inc.

411 WILSON AVENUE, NEWARK, NEW JERSEY 07105
Telephone (201) 589-7777

SOLD TO
Ashland Chemical
400 Doremus Ave.
Newark, N.J. 07105

INVOICE NO: 9-153
DATE 10-3-77 as of 9-30-77

SHIP TO ☐ PICK UP AT ☐
NAME AS SOLD TO UNLESS INDICATED

I-147	362-5537C	Net 10 Days	SCP 9-30-77 1	PPD X	COLL

QTY APPROXIMATE	QTY ACTUAL	DESCRIPTION	PRICE	AMOUNT
1 T/L	79 drums	Waste Removed	$25/dr	$1975.00
		Delay 9:30-1:30= 2½ hrs 2 HRS	$15/hr	$ 37.50
1 T/L	1 T/L	Transportation	$140/ld	$ 140.00
				$2152.50
				2145.00

EXAMINED CALCULATIONS
OCT 21 1977

RECEIVED
ACCOUNTS PAYABLE
OCT 17 1977

ACCOUNT 06263
By: RG Decker

V1$1975.00
F1$ 177.50

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF

INVOICE

842600456

Scientific Chemical Processing, Inc.

411 WILSON AVENUE, NEWARK, NEW JERSEY 07105
Telephone (201) 589-7777

INVOICE NO: 9-153
DATE: 10-3-77 as of 9-30-77

SOLD TO: Ashland Chemical
400 Doremus Ave.
Newark, N.J. 07105

SHIP TO ☐ PICK UP AT ☐
SAME AS SOLD TO UNLESS INDICATED

MAIL WITH CHECK

SALES ORDER #	YOUR ORDER NO.	TERMS NET 10 DAYS	SHIPPED VIA	PPD.	COLL.
I-147	362-5539-0511	Net 10 Days	SCP 9-30-77 1	X	

QTY APPROXIMATE	QTY ACTUAL	DESCRIPTION	PRICE	AMOUNT
1 T/L	79 drums	Waste Removed	$25/dr	$1975.00
		Delay 9:30-1:30= ~~2½~~ hrs 2 HRS	$15/hr	$ 37.50
1 T/L	1 T/L	Transportation	$140/ld	$ 140.00
				$2152.50
				2145.00

EXAMINED CALCULATIONS

OCT 21 1977

RECEIVED ACCOUNTS PAYABLE
OCT 17 1977

RECEIVED ACCOUNTS PAYABLE
OCT 10 1977

Passed For Payment

BY

RECEIVED OCT 21 1977

Chem. 1977 Accounts

OK MHG

$1975.00
$ 177.50

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF

INVOICE

MAIL WITH CHECK

842600457

COMPLETION ROUTING SLIP
INVALID TRANSACTION
DO NOT REMOVE

Your receipt of this unpaid document indicates that action is required on your part to complete the transaction. Please make the corrections indicated immediately, initial your action as having been completed and forward the document to the next location indicated on the routing slip.

Forward To	Individual, Department or Location	Completed By
	List	
✓	CBG	Com
	Accounts Payable -	
	Cost Accounting -	
	Accounting -	
	A/P Vendor Coding - Ashland	KBF
	A/P Misc Filing - Ashland	
	A/P Data Entry - Ashland	

DO NOT REMOVE

842600458

INVALID

MICRO. NUMBER 0019765

TO: ACCOUNTS PAYABLE FROM: TREASURY

THE ATTACHED INVOICE IS BEING RETURNED TO YOU FOR THE REASON(S) INDICATED BELOW. PLEASE GIVE THIS MATTER YOUR ATTENTION.

- ☐ INCORRECT FINANCIAL APPROVAL
- ☐ FINANCIAL CATEGORY INCORRECT
- ☐ INCORRECT AMOUNT
- ☐ [illegible] TRAFFIC APPROVAL
- ☐ CODE STAMP
- ☐ SPECIAL HANDLING CODE MISSING
- ☐ SPECIAL CHECK HANDLING REQUEST MISSING
- ☐ OTHER (SPECIFY)
- ☐ INCORRECT VENDOR
- ☐ INCORRECT VENDOR ADDRESS
- ☐ VENDOR NAME MISSPELLED
- ☐ INVOICE MISSING
- ☐ INVOICE NOT CODED BY DATA ENTRY
- ☐ INCORRECT INVOICE NUMBER
- ☐ CHECK FOR PRIOR PAYMENT
- ☐ R. M. NOT SIGNED
- ☐ R. M. MISSING

COMPLETED BY distribution DATE

842600459

(85)

0 9 7 2

300

ACCOUNTS PAYABLE DISTRIBUTION (USE BLACK INK)

E130176

PURCHASE ORDER NUMBER	DUE DATE MO.	DAY	YR.	VENDOR NO.	ENTRY DATE MO.	YR.	DOCUMENT NUMBER (If none Blank)
3,6,2,6,5,4,1	1,1	0,7	7,7	0,1,3,9,9,0,6,3	1,0	7,7	

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT	NET AMOUNT
10-102			2166.25

ROM (N – NOT REQUIRED, P – PRESENT, R – REQ./NOT PRESENT)	Cont.	APPROVAL CATEGORY	APPROVAL ID	MANUAL CHECK	SPEC.	TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT.
N	N		1,0,4,2,6,3			

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	R/C CODE	AMOUNT
		0,0,7,5,0,0	3,6,2	8,1,0,2,3,7	2,2,6	0,1,0,F,1,0	2,1,6,6,25

NOV 10 1977

VENDOR COPY

CODED BY	EMPLOYEE NO.	INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)	TOTAL DISTRIBUTION
	015654		2166.25

842600460

Scientific Chemical Processing, Inc.

411 WILSON AVENUE, NEWARK, NEW JERSEY 07105
Telephone (201) 589-7777

SOLD TO: Ashland Chemical
600 Doremus Ave.
Newark, N.J. 07105

INVOICE NO: 10-102
DATE: 10-24-77
SHIP TO ☐ PICK UP AT ☐
(SAME AS SOLD TO UNLESS INDICATED)

SALES ORDER #	YOUR ORDER NO.	TERMS NET 10 DAYS	SHIPPED VIA	PREP COLL
1-97	260-05h1	Net 10 Days	SCP 10-21-77	

QTY. APPROXIMATE	QTY. ACTUAL	DESCRIPTION	PRICE	AMOUNT
1 T/L	80 drums	Waste Removed	$25/dr	$2000.00
1 T/L	1 T/L	Delay 9:15-10:30= 1 3/4 hrs	$15/hr	$ 26.25
		Transportation	$140/1d	$ 140.00
				$2166.25

Category 1 Emp. No. 061263
By: RG Decker
OK MMG

RECEIVED BY NOV 09 P.M.
NOV 09 1977
SCIENTIFIC CHEMICAL PROCESSING

3 05 12 PM
RECEIVED
ACCOUNTS PAYABLE
NOV 8 1977

RECEIVED BY OCT 31 A.M.
NOV - 1977

RECEIVED NOV 01 1977
CHEMICAL ACCTG.

RECEIVED NOV 08 1977
CHEMICAL ACCTG.

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF

INVOICE

842600461

(86)

FORM:

ACCOUNTS PAYABLE DISTRIBUTION (USE BLACK INK)

PURCHASE ORDER NUMBER	INV. DATE MO.	DAY	YR.	VENDOR NO.	PAYEE NO.	YR.	DOCUMENT NUMBER (If zero Blank)
362654	10	25	77	0139963	10	77	E130177

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT	NET AMOUNT
10-Sta			2090.00

FORM	N – NOT REQUIRED / P – PRESENT / R – REQ./NOT PRESENT	Qual.	APPROVAL ID	MANUAL CHECK	SPEC.	TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT
N		N	NOG1963			

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	R/C CODE	AMOUNT
		90750	362	810237	226	01810	2090.00

NOV 10 1977

VENDOR CODE

CODED BY	EMPLOYEE NO.	INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)	TOTAL DISTRIBUTION
	015654		2090.00

842600462

0977

Scientific Chemical Processing, Inc.

411 WILSON AVENUE, NEWARK, NEW JERSEY 07105
Telephone (201) 589-7777

SOLD TO: Ashland Chemical
100 Doremus Ave.
Newark, N.J. 07105

INVOICE NO: 10-56
DATE: 10-18-77
SHIP TO ☐ PICK UP AT ☐
(SAME AS SOLD TO UNLESS INDICATED)

SALES ORDER #	YOUR ORDER NO.	TERMS NET 10 DAYS	SHIPPED VIA	FOB	TAX
10-56	30[illegible]6541	Net 10 Days	SCP 10-14-77		X

QTY. APPROXIMATE	QTY. ACTUAL	DESCRIPTION	PRICE	AMOUNT
1 T/L	70 drums 1 T/L	Waste Removed Transportation	.85/gr 110/ld	$1950.00 110.00
				$2060.00

RECEIVED BY
OCT 28 A.M.

RECEIVED BY
NOV 09 P.M.

RECEIVED
ACCOUNTS PAYABLE
NOV 9 1977

EXAMINED CALCINATION
NOV 09 1977

OK
MHG

3 041124

1 060263

By: R G Decker

$1,950.00
110.00

RECEIVED
NOV 09 1977
NOV 01 1977
CHEMICAL ACCTG.

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF

CHEMICAL ACCTG. INVOICE

842600463

300

ACCOUNTS PAYABLE DISTRIBUTION (USE BLACK INK)

PURCHASE ORDER NUMBER	RUC KEY	VENDOR NO.	ENTITY	DOCUMENT NUMBER
562665Y1	INV	01.39963	11 77	F141877

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT	NET AMOUNT
10-16th			2090.00

RCSD (B – NOT REQUIRED, P – PRESENT, R – REQ./NOT PRESENT)	Cont.	ACCESSION	APPROVAL ID	MANUAL CHECK	SPEC.	TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT.
N	N		106363			

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	RAC CODE	AMOUNT
		007500	362	P102357	226	01P10	2090 00

CODED BY	EMPLOYEE NO.	INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)	TOTAL DISTRIBUTION
	015654		2090 00

NOV 28 1977

VENDOR CODE

842600464

Scientific Chemical Processing, Inc.
411 WILSON AVENUE, NEWARK, NEW JERSEY 07105
Telephone (201) 589-7777

ASHLAND CHEMICAL CO.
1977 NOV 11 AM 10 53
R & D NEWARK N.J.

SOLD TO
Ashland Chemical
400 Doremus Ave.
Newark, N.J. 07105

INVOICE NO: 10-164
DATE: 11-7-77 as of 10-31-77
SHIP TO ☐ PICK UP AT ☐
(SAME AS SOLD TO UNLESS INDICATED)

SALES ORDER #	YOUR ORDER NO.	TERMS NET 10 DAYS	SHIPPED VIA			PPD.	COLL.
J-155	362-6541	Net 10 Days	SCP 10-31-77			X	

QTY. ASSIGNED	QTY. ACTUAL	DESCRIPTION	PRICE	AMOUNT
1 2/L	75 ~~80~~ drums 1 2/L	Waste Removed Transportation	$25/dr $140/1d	~~$2000.00~~ $ 140.00
				~~$2140.00~~ 2090.00

RECEIVED BY NOV 14 A.M.
EXAMINED CALCULATIONS
NOV 23 1977
RECEIVED BY ASHLAND CHEMICAL NOV 14 A.M.
NOV 15 1978
RECEIVED ACCOUNTS PAYABLE NOV 28 1977

061263
RG Decker

OK MMG 11-11-77

71 $2000.00
71 $ 140.00

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF

CHEMICAL INVOICE

842600465

0209

92.

C144005

FORM: 300

ACCOUNTS PAYABLE DISTRIBUTION (USE BLACK INK)

PURCHASE ORDER NUMBER	DUE DATE MO.	DAY	YR.	VENDOR NO.	ENTRY MO.	YR.	DOCUMENT NUMBER (Leave Blank)
362651	11	19	77	0139963	11	77	

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT	NET AMOUNT
11-19			2090 00

FORM	N - NOT REQUIRED / P - PRESENT / R - REQ NOT PRESENT	Chief Approval	APPROVAL ID	MANUAL CHECK	SPEC.	TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT
N	P	N	106263			

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	R/C CODE	AMOUNT
		00750	362	810237	326	01051	2090 00

CODED BY	EMPLOYEE NO.	INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)	TOTAL DISTRIBUTION
V	115654		2090 00

NOV 30 1977

VENDOR CODE

842600466

Scientific Chemical Processing, Inc.

411 WILSON AVENUE, NEWARK, NEW JERSEY 07105
Telephone (201) 589-7777

INVOICE NO: 11-19
DATE: 11-9-77

SOLD TO: Ashland Chemical Co.
400 Doremus Ave.
Newark, N.J. 07105

SHIP TO ☐ PICK UP AT ☐
(SAME AS SOLD TO UNLESS INDICATED)

YOUR ORDER NO.	TERMS NET 10 DAYS	SHIPPED VIA	FOB
K-19	362-6541	Net 10 Days	SCP 11-7-77	

QTY APPROXIMATE	QTY ACTUAL	DESCRIPTION	PRICE	AMOUNT
1 T/L	78 drums	Waste Removed	$25/dr	$1950.00
1 T/L	1 T/L	Transportation	$140/ld	$ 140.00
				$2090.00

NOV 28 1977

REC.
NOV 22 A.M.

OK Mitchell 11/14/77

061263
RG Durkin
RECEIVED

NOV 28 1977

RECEIVED BY
NOV 18 A.M.
RECEIVED
ACCOUNTS PAYABLE
NOV 23 1977

V1$1950.00
P1$ 140.00

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF

INVOICE

842600467

(94.)

300

ACCOUNTS PAYABLE DISTRIBUTION (USE BLACK INK)

D131520

PURCHASE ORDER NUMBER	RELEASE No.	VENDOR NO.	DOCUMENT NUMBER (Leave Blank)	ENTRY No.
362651	1126	1013999063		11

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT	NET AMOUNT
11-MG			211500

RQM (N – NOT REQUIRED, P – PRESENT, R – REQ./NOT PRESENT)	Cust. ACCESS #	APPROVAL ID	MANUAL CHECK	SPEC.	TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT.
N	N	10411263			

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	B/C CODE	AMOUNT
		007500	362	P102207	226	010810	211500

DEC 01 1977

VENDOR CODE

CODED BY	EMPLOYEE NO.	INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)	TOTAL DISTRIBUTION
W	015654		211500

842600468

95.

ACCOUNTS PAYABLE DISTRIBUTION (USE BLACK INK)

F147098

PURCHASE ORDER NUMBER	DUE DATE	VENDOR NO.	ENTRY
362655	12 01 77	01399063 11	77

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT	NET AMOUNT
11-80			2130.00

RCM: M (N – NOT REQUIRED; P – PRESENT; R – REQ./NOT PRESENT) | Cont. | FREEZE: N | APPROVAL ID: 10.1363 | MANUAL CHECK | SPEC. | TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT.

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	R/C CODE	AMOUNT
		00750	363	81033	226	01081	2130.00

CODED BY	EMPLOYEE NO.	INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)	TOTAL DISTRIBUTION
	016454		2130.00

DEC 08 1977

VENDOR CODE

842600469

Scientific Chemical Processing, Inc.

411 WILSON AVENUE, NEWARK, NEW JERSEY 07105
Telephone (201) 589-7777

SOLD TO: Ashland Chemical
500 Dawson Ave.
Newark, N.J.

INVOICE NO: 11-80
DATE: 11-22-77
SHIP TO ☐ PICK UP AT ☐
SAME AS SOLD TO UNLESS INDICATED

SALES ORDER #	YOUR ORDER NO.	TERMS: NET 10 DAYS	SHIPPED VIA	F.O.B.	ALL
X-77	362-6521	Net 10 Days	SCP 11-18-77	X	

QTY. SHIPPED	QTY. ORDERED	DESCRIPTION	PRICE	AMOUNT
1 T/L	79 drums	Waste Removed	$25/dr	$1975.00
1 T/L	1 T/L	Delay 9:30-12:00- 1 hr	$15/hr	$ 15.00
		Transportation	$140/1d	$ 140.00
				$2130.00

EXAMINED CALCULATIONS
DEC 08 1977
ASHLAND CHEMICALS

RECEIVED BY
DEC 02 P.M.
DEC 08 19[illegible]
DEC 5 1978
RECEIVED
Chemical Accounting
DEC 08 1977

Passed For Payment
L 06763
RG Dayton

RECEIVED BY
DEC 0
RECEIVED
ACCOUNTS PAYABLE
DEC 8 1977

$1975.00
$ 155.00

SUBJECT TO TERMS & CONDITIONS SPECIFIED ON REVERSE SIDE HEREOF
CHEMICAL ACCTG.
INVOICE

842600470

ACC-1

ACCOUNTS PAYABLE DISTRIBUTION

(USE BLACK INK)

D250366

PURCHASE ORDER NUMBER	DUE DATE MO.	DUE DATE DAY	DUE DATE YR.	VENDOR NO.	ENTRY MO.	ENTRY YR.	DOCUMENT NUMBER (Leave Blank)
1139177-00171	09	24	78	0264827	09	78	

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT		NET AMOUNT
10210				2014.00

OM: N – NOT REQUIRED; P – PRESENT; R – REQUIRED/NOT PRESENT: N

Qual.: P

APPROVAL CATEGORY: 3

APPROVAL EMPLOYEE NO.: 611174

MANUAL CHECK:

SPEC:

TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT.

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	R/C CODE		AMOUNT
		00750P	362	8102377	226	010810	–	1914.00
		7500	362	8102767	226	010810	–	100.00
							–	
							–	
							–	
							–	
							–	
							–	

CODED BY	EMPLOYEE NO.	INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)	TOTAL DISTRIBUTION
LO—	915434		2014.00

OCT 02 1978

VENDOR CODE

842600471

DV CHEMICAL CARTING & PROCESSING
1600 LOWER ROAD
LINDEN, NEW JERSEY 07036

SOLD TO Ashland Chemical Company
400 Doremus Ave.
Newark, New Jersey

INVOICE 1020

Passed For Payment
OCT 02 1978
Chemical Accounting

RECEIVED
SEP 29 1978
SEP 29 1978
BY

TERMS	INVOICE DATE	ORDER NO.	OUR ORDER NO.
N 10	9-15-78	13913-00171	

DESCRIPTION	UNIT PRICE	AMOUNT
87 Drms. Waste Material transportation	$22.00	$1914.00
		100.00
		$2014.00

QUALITY ASSURANCE
REQUIRED BY

Category 3 Emp. No. 061124
By:

PURCHASING DEPT.
RECEIVED
SEP 27 P.M.
COLUMBUS, OHIO

Thank You!

842600472

2020C-1

ACCOUNTS PAYABLE DISTRIBUTION

(USE BLACK INK)

D250368

PURCHASE ORDER NUMBER	DUE DATE MO.	DUE DATE DAY	DUE DATE YR.	VENDOR NO.	ENTRY MO.	ENTRY YR.	DOCUMENT NUMBER (Leave Blank)
0139170-0017	09	24	78	02648270	09	78	

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT		NET AMOUNT
1019				2014.00

ROM	N – NOT REQUIRED P – PRESENT R – REQUIRED/NOT PRESENT	Qual.	APPROVAL CATEGORY	APPROVAL EMPLOYEE NO.	MANUAL CHECK	SPEC.	TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT.
N		P	3	611124			

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	R/C CODE		AMOUNT
		007500	362	8102377	226	010810	–	1914.00
		7500	362	8102896	226	010810	–	100.00
							–	
							–	
							–	
							–	
							–	
							–	

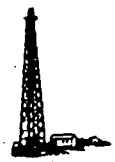
CODED BY	EMPLOYEE NO.	INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)	TOTAL DISTRIBUTION
	W-015654	OCT 02 19	2014.00

VENDOR CODE

842600473

DV CHEMICAL CARTING & PROCESSING
1600 LOWER ROAD
LINDEN, NEW JERSEY 07036

SOLD TO Ashland Chemical Company
400 Doremus Ave.
Newark, New Jersey



INVOICE 1019

TERMS	INVOICE DATE	ORDER NO.	OUR ORDER NO.
N 10	9-15-78	I3913-00171	

DESCRIPTION	UNIT PRICE	AMOUNT
87 Drms. Waste Material Transportation	$22.00	$ 1914.00
		100.00
		$ 2014.00

RECEIVED
ACCOUNTS PAYABLE
SEP 29 1978

RECEIVED
SEP 2 P.M.

Chemical Accounting

Passed For Payment
SEP 29 1978

APPROVED

QUALITY ASSURANCE
REQUIRED BY

Category 3 | Emp. No. 061124

By:

PURCHASING DEPT.
RECEIVED
SEP 27 P.M.
COLUMBUS, OHIO

Thank You!

842600474

2939C-1

ACCOUNTS PAYABLE DISTRIBUTION

(USE BLACK INK)

D250367

PURCHASE ORDER NUMBER	DUE DATE MO.	DUE DATE DAY	DUE DATE YR.	VENDOR NO.	ENTRY MO.	ENTRY YR.	DOCUMENT NUMBER (Leave Blank)
0139130-00171	09	24	78	02648270	09	78	

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT		NET AMOUNT
1018				2014.00

ROM	N – NOT REQUIRED P – PRESENT R – REQUIRED/NOT PRESENT	Qual.	APPROVAL CATEGORY	APPROVAL EMPLOYEE NO.	MANUAL CHECK	SPEC.	TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT.
N		P	3	611254			

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	R/C CODE		AMOUNT
		0075000	3621	8102377	226	0108100	–	1914.00
		7500	3621	8102896	226	0108100	–	100.00
							–	
							–	
							–	
							–	
							–	
							–	

CODED BY	EMPLOYEE NO.	INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)	TOTAL DISTRIBUTION
lv	0156054		2014.00

OCT 02 1978

VENDOR CODE

842600475

DV CHEMICAL CARTING & PROCESSING
1600 LOWER ROAD
LINDEN, NEW JERSEY 07036

SOLD TO Ashland Chemical Company
400 Doremus ave.
Newark, New Jersey 07105

INVOICE 1018

TERMS	INVOICE DATE	ORDER NO.	DUP ORDER NO.
N 10	9-15-78	13913-00171	

	DESCRIPTION	UNIT PRICE	AMOUNT
87 Drms.	Waste Material Transportation		$ 1914.00
			100.00
			$2014.00

QUALITY ASSURANCE REQUIRED BY

RECEIVED SEP 29 1978

Category 3 Emp. No. 06124
By John F Smith

PURCHASING DEPT. RECEIVED SEP 28 1978

Chemical Accounting

Plant Department

RECEIVED BY SEP 29 P.M.

Thank You!

842600476

~~D296311~~

D298145

ACCOUNTS PAYABLE DISTRIBUTION

(USE BLACK INK)

PURCHASE ORDER NUMBER	DUE DATE MO.	DUE DATE DAY	DUE DATE YR.	VENDOR NO.	ENTRY MO.	ENTRY YR.	DOCUMENT NUMBER (Leave Blank)
A73913-A01711	12	17	80	2648779	12	78	

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1036			199200

ROM: N – NOT REQUIRED; P – PRESENT; R – REQUIRED/NOT PRESENT: N

Qual. / APPROVAL CATEGORY: P / 1

APPROVAL EMPLOYEE NO.: 601263

MANUAL CHECK:

SPEC.:

TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT.

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	R/C CODE	AMOUNT
		75000	362	810223	226	COLUMBUS OHIO	189200
		75000	↓	810296	↓	–	10000
						–	
						–	
						–	
						–	
						–	

DEC 26 PM RECEIVED PURCHASING DEPT

CODED BY	EMPLOYEE NO.	INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)	TOTAL DISTRIBUTION
	050746		199200

DEC 29 1978

VENDOR CODE

842600477

FROM
ASHLAND CHEMICAL COMPANY
400 DOREMUS AVENUE
NEWARK, NEW JERSEY

THEIR TRUCK — Carrier

Date 12-7-78

Shipper's Number A18423

Ashland,
ASHLAND CHEMICAL COMPANY
Division of Ashland Oil, Inc

STRAIGHT BILL OF LADING
(Non Transit) SHORT FORM
ORIGINAL—NOT NEGOTIABLE

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned, and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any part of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns

CONSIGNED TO
D V CHEMICAL CARTING
1600 LOWER ROAD
LINDEN, NEW JERSEY

Mail or Street Address of Consignee
for purpose of identification only

ROUTE THEIR TRUCK

DELIVERING CARRIER

CAR OR VEHICLE INITIAL AND NO.

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement.

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

ASHLAND CHEMICAL COMPANY
K. Kornitzke
(Signature of Consignor)

If charges are to be Prepaid type here "Prepaid"

COLLECT

QUANTITY	HM	DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	WEIGHT (Subject to Correction)	CLASS OR RATE	CHECK COLUMN
86 DRS	X	RESIN SOLUTION FLAMMABLE LIQUID WASTE MATERIAL			
		GROSS	46560		
		TARE	23610		
		NET	22950		

TIME IN 8⁰⁰PM

TIME OUT 9¹⁵PM

CONTAINER PLACARDED WITH
NUMBER 4 TYPE FLAMMABLE LIQUID
SIGNED BY V DeVincenzo
D V CHEMICAL CARTING

IN THE EVENT OF ANY EMERGENCY CONCERNING THE PRODUCT IN THIS SHIPMENT, CALL TOLL-FREE NUMBER 800-424-9300, DAY OR NIGHT.

Received $ _____ to apply in prepayment of the charges on the property described hereon

Agent or Cashier

Per _____
(The signature here acknowledges only the amount prepaid)

Charges advanced:

$ _____

"The fibre boxes or sacks used for this shipment conform to requirements of Rule 5-40 and 41 of Consolidated Freight Classification."

The description and weight indicated on this bill of lading are correct subject to verification by the APPROPRIATE WEIGHING AND INSPECTION BUREAU according to agreement.

"If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." Note—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ _____ per _____

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation, according to the applicable regulations of the Department of Transportation.

K. Kornitzke

Not a bill of lading when moved in a vehicle operated by shipper or owner of product, but merely a receipt for product in behalf of owner.

Carrier certifies that the cargo tank supplied for this shipment is a proper container for the transportation of this commodity.

SIGNATURE

ASHLAND CHEMICAL COMPANY, SHIPPER
400 DOREMUS AVENUE, NEWARK, NJ 07105
K. Kornitzke

AGENT _____

PER _____

Permanent post office address of shipper: P.O. BOX 2219, COLUMBUS, OHIO 43216

5304

842600478

PLEASE PAY ON THIS INVOICE
NP 12/26

DV CHEMICAL CARTING & PROCESSING
1600 LOWER ROAD
LINDEN, NEW JERSEY 07036

SOLD TO
Ashland Chemical Co. Inc.
400 doremus Ave.
Newark, New Jersey 07105

RECEIVED DEC 27 P.M.

RECEIVED P.M.

INVOICE 1036

TERMS	INVOICE DATE	ORDER NO.	OUR ORDER NO.
N 10	12-8-78	13913-00171	DEC 27 1978

DESCRIPTION	UNIT PRICE	AMOUNT
86 Drms. Waste Material	$ 22.00	$1892.00
Transportation		100.00
		$1992.00

Passed For Payment
DEC 28 1978
075000 - 81230
Chemical Accounting
REQUIRED BY
Rabun

Category 1 Emp. No. 061263
By: RG Parker

Category Emp. No. 061874
By:

RECEIVED
ACCOUNTS PAYABLE
DEC 27 1978
APPROVED BY

Thank You!

842600479

~~D296310~~ D298144

ACCOUNTS PAYABLE DISTRIBUTION

(USE BLACK INK)

PURCHASE ORDER NUMBER	DUE DATE MO.	DAY	YR.	VENDOR NO.	ENTRY MO.	YR.	DOCUMENT NUMBER (Leave Blank)
0139130001711	12	17	78	0264820	12	78	

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1035			199200

ROM: N – NOT REQUIRED; P – PRESENT; R – REQUIRED/NOT PRESENT: N

Qual.: P

APPROVAL CATEGORY:

APPROVAL EMPLOYEE NO.: 61263

MANUAL CHECK:

SPEC.:

TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT.

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	R/C CODE		AMOUNT
		75000	362	810237	226	01081	–	189200
		75000	↑	810296	↑	↑	–	10000

PURCHASING DEPT. RECEIVED DEC 28 P.M. COLUMBUS, OHIO

CODED BY	EMPLOYEE NO.	INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)	TOTAL DISTRIBUTION
SK	050746		199200

DEC 29 1978

VENDOR CODE

842600480

FROM
ASHLAND CHEMICAL COMPANY
400 DOREMUS AVENUE
NEWARK, NJ
THEIR TRUCK
Carrier

Date 12-7-78

Shipper's Number A16423

Ashland.

ASHLAND CHEMICAL COMPANY
Division of Ashland Oil, Inc

STRAIGHT BILL OF LADING

(Non Transit) SHORT FORM

ORIGINAL—NOT NEGOTIABLE

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any part of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

CONSIGNED TO: D V CHEMICAL CARTING
1600 LOWER ROAD
LINDEN, NJ

Mail or Street Address of Consignee for purpose of Identification only

ROUTE: THEIR TRUCK

DELIVERING CARRIER

CAR OR VEHICLE INITIAL AND NO.

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement.

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

ASHLAND CHEMICAL COMPANY
K. Kaminskia
(Signature of Consignor)

If charges are to be Prepaid type here: "Prepaid"

Received $ _____ to apply in prepayment of the charges on the property described hereon.

Agent or Cashier

Per _____
(The signature here acknowledges only the amount prepaid.)

Charges advanced:

$ _____

"The fibre boxes or sacks used for this shipment conform to requirements of Rule 5-40 and 41 of Consolidated Freight Classification."

The description and weight indicated on this bill of lading are correct subject to verification by the APPROPRIATE WEIGHING AND INSPECTION BUREAU according to agreement.

"If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." Note—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ _____ per _____

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation, according to the applicable regulations of the Department of Transportation.

K. Kaminskia

Not a bill of lading when moved in a vehicle operated by shipper or owner of product, but merely a receipt for product in behalf of owner.

Carrier certifies that the cargo tank supplied for this shipment is a proper container for the transportation of this commodity.

SIGNATURE

QUANTITY	HM	DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	*WEIGHT (Subject to Correction)	CLASS OR RATE	CHECK COLUMN
XXXXXX 86 DRS	X	RESIN SOLUTION FLAMMABLE LIQUID WASTE MATERIAL			
		GROSS	49490		
		TARE	23820		
		NET	25670		
		TIME IN 430			
		TIME OUT 540			
		CONTAINERS PLACARDED WITH NUMBER 4 TYPE FLAMMABLE PLACARDS			
		SIGNED BY V. DeLuca			
		DV CHEMICAL CARTING			
		IN THE EVENT OF ANY EMERGENCY CONCERNING THE PRODUCT IN THIS SHIPMENT, CALL TOLL-FREE NUMBER 800-424-9300, DAY OR NIGHT.			

ASHLAND CHEMICAL COMPANY, SHIPPER
400 DOREMUS AVENUE NEWARK, NJ
K. Kaminskia

_____ AGENT

PER _____

Permanent post office address of shipper: P.O. BOX 2219, COLUMBUS, OHIO 43216

8304

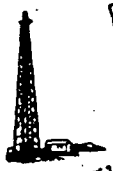
842600481

PLEASE PAY ON THIS INVO...
12/26

DV CHEMICAL CARTING & PROCESSING
1600 LOWER ROAD
LINDEN, NEW JERSEY 07036

RECEIVED
DEC 27 P.M.

SOLD TO Ashland Chemical Co.
400 Doremus Ave.
Newark. New Jersey 07105



INVOICE 1035

TERMS	INVOICE DATE	ORDER NO.	OUR ORDER NO.
N 10	12-8-79	13913-00171	

Category Emp. No. 061263
By: R G Dentin

DESCRIPTION		UNIT PRICE	AMOUNT
86 Drms.	Waste Material	22.00	$ 1892.00
	Transportation		100.00
			$1992.00

DEC 27 1978

Passed For Payment
000 - 810230

RECEIVED
ACCOUNTS PAYABLE
DEC 27 1978

RECEIVED BY
DEC P.M. BS
12-26

QUALITY INSURANCE
REQUIRED BY
Chemical Accounting

APPROVED
BY

Category Emp. No. 063871
By:

Thank You!

842600482

D296328

ACCOUNTS PAYABLE DISTRIBUTION (USE BLACK INK)

PURCHASE ORDER NUMBER	DUE DATE MO.	DAY	YR.	VENDOR NO.	ENTRY MO.	YR.	DOCUMENT NUMBER (Leave Blank)
01.3913-00171	12	10	78	0364827	12	78	

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1032			186000

ROM: N – NOT REQUIRED; P – PRESENT; R – REQUIRED/NOT PRESENT: N

Qual.: P

APPROVAL CATEGORY:

APPROVAL EMPLOYEE NO.: 612763

MANUAL CHECK:

SPEC.:

TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT.

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	R/C CODE		AMOUNT
		7500,0	362	810237	226	010810	-	176000
		+	+	810279	226	010810	-	10000
							-	
							-	
							-	
							-	
							-	
							-	

CODED BY: SK

EMPLOYEE NO.: 050746

INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)

TOTAL DISTRIBUTION: 186000

DEC 29 1978

VENDOR CODE

842600483

FROM

ASHLAND CHEMICAL COMPANY
400 DOREMUS AVENUE
NEWARK, NJ

THEIR TRUCK Carrier

Date

11-16-78

Shipper's Number

Ashland.

ASHLAND CHEMICAL COMPANY
Division of Ashland Oil, Inc.

STRAIGHT BILL OF LADING
(Non Transit) SHORT FORM
MEMORANDUM

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any part of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

CONSIGNED TO D V CHEMICAL CARTING
1600 LOWER ROAD
LINDEN, NEW JERSEY

Mail or Street Address of Consignee for purpose of Identification only

ROUTE THEIR TRUCK

DELIVERING CARRIER

CAR OR VEHICLE INITIAL AND NO.

QUANTITY	HM	DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	*WEIGHT (Subject to Correction)	CLASS OR RATE	CHECK COLUMN
80 DRS	X	RESIN SOLUTION FLAMMABLE LIQUID WASTE MATERIAL GROSS	47300		
		TARE	23500		
		NET	23720		
		TIME IN 1:30			
		TIME OUT 2:30			
		CONTAINER PLACARDED WITH			
		NUMBER 4 TYPE FLAMMABLE PLACARDS			
		SIGNED BY [signature] D V CHEMICAL CARTING			

IN THE EVENT OF ANY EMERGENCY CONCERNING THE PRODUCT IN THIS SHIPMENT, CALL TOLL-FREE NUMBER 800-424-9300, DAY OR NIGHT

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

ASHLAND CHEMICAL COMPANY

[signature]
(Signature of Consignor)

If charges are to be Prepaid type here "Prepaid"

COLLECT

Received $ _____ to apply in prepayment of the charges on the property described hereon.

Agent or Cashier

Per _____
(The signature here acknowledges only the amount prepaid.)

Charges advanced:

$ _____

"The fibre boxes or sacks used for this shipment conform to requirements of Rule 5-40 and 41 of Consolidated Freight Classification."

The description and weight indicated on this bill of lading are correct subject to verification by the APPROPRIATE WEIGHING AND INSPECTION BUREAU according to agreement.

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." Note—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ _____ per _____

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation, according to the applicable regulations of the Department of Transportation.

[signature]

Not a bill of lading when moved in a vehicle operated by shipper or owner of product, but merely a receipt for product in behalf of owner.

Carrier certifies that the cargo tank supplied for this shipment is a proper container for the transportation of this commodity.

SIGNATURE

ASHLAND CHEMICAL COMPANY, SHIPPER
400 DOREMUS AVENUE NEWARK, NEW JERSEY 07105

_____ AGENT

PER _____

Permanent post office address of shipper: P.O. BOX 2219, COLUMBUS, OHIO 43216

8304

842600484

FROM
ASHLAND CHEMICAL COMPANY
400 DOREMUS AVENUE
NEWARK, NJ

THEIR TRUCK Carrier

Date
11-16-78

Shipper's Number
A18422

Ashland.
ASHLAND CHEMICAL COMPANY
Division of Ashland Oil, Inc.

STRAIGHT BILL OF LADING
(Non Transit) SHORT FORM
ORIGINAL—NOT NEGOTIABLE

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any part of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

CONSIGNED TO D V CHEMICAL CARTING
1600 LOWER ROAD
LINDEN, NEW JERSEY

Mail or Street Address of Consignee for purpose of identification only

ROUTE THEIR TRUCK

DELIVERING CARRIER

CAR OR VEHICLE INITIAL AND NO.

QUANTITY	HM	DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	WEIGHT (Subject to Correction)	CLASS OR RATE	CHECK COLUMN
80 DRS	X	RESIN SOLUTION FLAMMABLE LIQUID WASTE MATERIAL GROSS	47300		
		TARE	23800		
		NET	23500		

TIME IN 12
TIME OUT 230

CONTAINER PLACARDED WITH

NUMBER 4 TYPE FLAMMABLE PLACARDS

SIGNED BY W DeLuca
D V CHEMICAL CARTING

IN THE EVENT OF ANY EMERGENCY CONCERNING THE PRODUCT IN THIS SHIPMENT, CALL TOLL-FREE NUMBER 800-424-9300, DAY OR NIGHT

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

ASHLAND CHEMICAL COMPANY
(Signature of Consignor)

If charges are to be Prepaid type here "Prepaid"
COLLECT

Received $ _____ to apply in prepayment of the charges on the property described hereon.

Agent or Cashier.

Per _____
(The signature here acknowledges only the amount prepaid.)

Charges advanced:

$ _____

"The fibre boxes or sacks used for this shipment conform to requirements of Rule 5-40 and 41 of Consolidated Freight Classification."

The description and weight indicated on this bill of lading are correct subject to verification by the APPROPRIATE WEIGHING AND INSPECTION BUREAU according to agreement.

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." Note—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ _____ per _____

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation, according to the applicable regulations of the Department of Transportation.

SIGNATURE

Not bill of lading when moved in a vehicle owned by shipper or owner of product, but merely a receipt for product in behalf of owner.

Carrier certifies that the cargo tank supplied for this shipment is a proper container for the transportation of this commodity.

ASHLAND CHEMICAL COMPANY, SHIPPER
400 DOREMUS AVENUE NEWARK, NEW JERSEY 07105

Permanent post office address of shipper: P.O. BOX 2219, COLUMBUS, OHIO 43216

_____ AGENT.

PER _____

8304

842600485

PLEASE PAY ON THIS INVOICE

NP 12/26/78

D V CHEMICAL CARTING & PROCESSING
1600 LOWER ROAD
LINDEN, NEW JERSEY 07036

SOLD TO Ashland Chemical Co.
400 Doremus Ave.
New Ark, New Jersey 07105

RECEIVED ACCOUNTS PAYABLE DEC 27 1978 P.M.

INVOICE 1032

Passed For Payment

DEC 26 1978

By Chemical Accounting

TERMS	INVOICE DATE	ORDER NO.	OUR ORDER NO.	DESCRIPTION	UNIT PRICE	AMOUNT
N/10	12-1-78	13913-00171	DEC 27			
80 Drms.	Waste Material				22.00	$ 1760.00
	Transportation					100.00
						1860.00

075000-810230

RECEIVED ACCOUNTS PAYABLE DEC 26 1978

QUALITY ASSURANCE REQUIRED BY RW Bow

DEC 27 1978

RECEIVED BY BH 10-26

Category 1 Emp. No. 062874 By: [signature]

Category 1 Emp. No. 061263 By: R G Decker

Thank You!

842600486

ACCOUNTS PAYABLE DISTRIBUTION (USE BLACK INK)

D296329

PURCHASE ORDER NUMBER	DUE DATE MO.	DAY	YR.	VENDOR NO.	ENTRY MO.	YR.	DOCUMENT NUMBER (Leave Blank)
A139L3-OC171	12	07	78	0264279	12	78	

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1031			186000

ROM: N – NOT REQUIRED; P – PRESENT; R – REQUIRED/NOT PRESENT: N

Qual.: P

APPROVAL CATEGORY: 1

APPROVAL EMPLOYEE NO.: 601263

MANUAL CHECK:

SPEC.:

TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT.

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	R/C CODE		AMOUNT
		75000	362	810237	226	010810	-	176000
		"	"	810296	"	"	-	10000
							-	
							-	
							-	
							-	
							-	
							-	

PURCHASING DEPT RECEIVED DEC 2 6 PM COLUMBUS, OHIO

CODED BY	EMPLOYEE NO.	INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)	TOTAL DISTRIBUTION
SK	050746		186000

DEC 29 1978

VENDOR CODE

842600487

FROM

ASHLAND CHEMICAL COMPANY
400 DOREMUS AVENUE
NEWARK, NJ

XXXXXXX THEIR TRUCK

Date 11/17/78

Shipper's Number A18422

Ashland

ASHLAND CHEMICAL COMPANY
A division of Ashland Oil, Inc.

STRAIGHT BILL OF LADING

(Non Transit) SHORT FORM
ORIGINAL—NOT NEGOTIABLE

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any part of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

CONSIGNED TO

D V CHEMICAL CARTING CO
1600 LOWER ROAD
LINDEN, NEW JERSEY

Mail or Street Address of Consignee for purpose of identification only

ROUTE THEIR TRUCK

DELIVERING CARRIER

CAR OR VEHICLE INITIAL AND NO.

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement.

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

ASHLAND CHEMICAL COMPANY
K. Kaminski
(Signature of Consignor)

If charges are to be Prepaid type here "Prepaid"

~~COLLECT~~

Received $ _____ to apply in prepayment of the charges on the property described hereon.

Agent or Cashier

Per _____
(The signature here acknowledges only the amount prepaid.)

Charges advanced:

$ _____

"The fibre boxes or sacks used for this shipment conform to requirements of Rule 5-40 and 41 of Consolidated Freight Classification."

The description and weight indicated on this bill of lading are correct subject to verification by the APPROPRIATE WEIGHING AND INSPECTION BUREAU according to agreement.

"If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." Note—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ _____ per _____

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation, according to the applicable regulations of the Department of Transportation. IN THIS

K. Kaminski

Not a bill of lading when moved in a vehicle operated by shipper or owner of product, but only a receipt for product in behalf of owner.

Carrier certifies that the cargo tank supplied for this shipment is a proper container for the transportation of this commodity.

SIGNATURE

QUANTITY	HM	DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	*WEIGHT (Subject to Correction)	CLASS OR RATE	CHECK COLUMN
80 DRS	X	RESIN SOLUTION FLAMMABLE LIQUID WASTE MATERIAL			
		GROSS	50260		
		TARE	23,960		
		NET	26.300		

TIME IN 4 30 PM

TIME OUT 5 50 PM

CONTAINER PLACARDED WITH NUMBER 4 TYPE FLAMMABLE PLACARDS

XXXX SIGNED BY D. DeVivo

D V CHEMICAL CARTING.....

IN THE EVENT OF ANY EMERGENCY CONCERNING THE PRODUCT IN THIS SHIPMENT, CALL TOLL FREE NUMBER 800-424-9300, DAY OR NIGHT.

IN THE EVENT OF ANY EMERGENCY CONCERNING THE PRODUCT IN THIS SHIPMENT, CALL TOLL FREE NUMBER 800-424-9300, DAY OR NIGHT.

ASHLAND CHEMICAL COMPANY, SHIPPER

K. Kaminski

Permanent post office address of shipper: P.O. BOX 2219, COLUMBUS, OHIO 43216

8304

_____ AGENT

PER _____

842600488

D V CHEMICAL CARTING & PROCESSING
[illegible]00 LOWER ROAD
[illegible]DEN, NEW JERSEY 07036

PLEASE PAY ON THIS INVOICE

NP 3/26 GP

SOLD TO Ashland Chemical Co.
400 Doremus Ave.
Newark, New Jersey 07105

RECEIVED
ACCOUNTS PAYABLE
DEC 27 1978

RECEIVED
DEC 27 P.M.

RECEIVED INVOICE 1031
DEC 2[illegible] P.M.

APPROVED

TERMS	INVOICE DATE	ORDER NO. BY	CUSTOMER NO.		
N 10	12-1-78	13913-00171			

	DESCRIPTION	UNIT PRICE	AMOUNT
80 Drms.	Waste Material	22.00	$ 1760.00
			100.00
			$1860.00

Transporter Ticket No. C 22363
Collected / Delivered
By: R G Dunkin

DEC 28 1978

075000-810230

QUALITY ASSURANCE REQUIRED BY
R of Ban

For Payment
Chemical Accounting

By: [illegible]

DEC 27 1978

DEC 2[illegible] 1978

Thank You!

842600489

form-1

ACCOUNTS PAYABLE DISTRIBUTION

(USE BLACK INK)

D204684

PURCHASE ORDER NUMBER	DUE DATE MO.	DAY	YR.	VENDOR NO.	ENTRY MO.	YR.	DOCUMENT NUMBER (Leave Blank)
0,1,3,9,1,3,-0,0,1,7,1	0,5	0,8	7,8	0,3,6,4,8,2,7,0	0,5	7,8	

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1008			1860.00

ROM: N – NOT REQUIRED; P – PRESENT; R – REQUIRED/NOT PRESENT

ROM	Qual.	APPROVAL CATEGORY	APPROVAL EMPLOYEE NO.	MANUAL CHECK	SPEC.
N	N	3	6/1/24		

TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT.

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	R/C CODE		AMOUNT
		0,0,7,5,0,0	3,6,2	8,1,0,2,8,7	2,2,6	0,1,0,8,1,0	–	1848.00
		7500	362	8,10286	226	0,10810	–	100.00
				2,61329	638	0,10004	–	(88.00)
							–	
							–	
							–	
							–	
							–	

JUN 12 1978

CODED BY	EMPLOYEE NO.	INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)	TOTAL DISTRIBUTION
Un	015654	VENDOR	1860.00

842600490

DV CHEMICAL CARTING & PROCESSING
1600 LOWER ROAD
LINDEN, NEW JERSEY 07036

PLEASE PAY ON THIS INVOICE NP 6/6 gp

SOLD TO Ashland Chemical Co.
400 Doremus Ave.
Newark, New Jersey 07105

EXAMINED CALCULATIONS

INVOICE 1008

JUN 09 1978

Passed For Payment

ASHLAND CHEMICALS

TERMS	INVOICE DATE	ORDER NO.	OUR ORDER NO.
N 10	4-28-78	13913	JUN 09 1978

	DESCRIPTION	UNIT PRICE	AMOUNT
80 Drms.	Waste Material Transportation	22.00	$ 1760.00
			100.00
			$1860.00

Chemical Accounting
RECEIVED BY
RECEIVED
JUN 05 P.M. ACCOUNTS PAYABLE

REMIT TO: P.O.Box 385
Linden, New Jersey 07036

JUN 08 1978

PURCHASING DEPT.
RECEIVED
JUN 7 A.M.
COLUMBUS, OHIO

Category	Emp. No.
3	041184

By

APPROVED 6/7

RECEIVED BY
JUN 07 A.M.

Thank You!

842600491

C222956

PROC-1

ACCOUNTS PAYABLE DISTRIBUTION

(USE BLACK INK)

PURCHASE ORDER NUMBER	DUE DATE MO/DA/DA/TYP/TR	VENDOR NO.	ENTRY MO/DA/TYP/TR	DOCUMENT NUMBER (Leave Blank)
0,1,3,9,1,3,-,0,0,7,1	05	61178	02648270	05178

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT	NET AMOUNT MO/DA/TYP/TR
1-6866616			1860.00

ROM	N – NOT REQUIRED P – PRESENT R – REQUIRED/NOT PRESENT	Qual.	APPROVAL CATEGORY	APPROVAL EMPLOYEE NO.	MANUAL CHECK	SPEC.	TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT.
N		N	2A	61124			

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	R/C CODE		AMOUNT
		0,0,7,5,0,0	362	8,1,0,2,9,7	2,2,6	0,1,0,8,1,0	–	1848.00
		7500	362	8,1,0,2,9,6	226	0,1,0,8,1,0	–	100.00
				2,1,1,3,2,9	6,3,8	0,1,0,0,0,4	–	(88.00)
							–	
							–	
							–	
							–	
			VEN 08 1978				–	

CODED BY	EMPLOYEE NO.	INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)	TOTAL DISTRIBUTION
JL	0 156454		1860.00

842600492

MAY 3 1 [illegible]

DV CHEMICAL CARTING & PROCESSING
1600 LOWER ROAD
LINDEN, NEW JERSEY 07036

SOLD TO Ashland Chemical Co.
400 Doremus Ave.
Newark, New Jersey 07105

PLEASE PAY ON THIS INVOICE NP 5/31

Passed For Payment
JUN 07 1978
Chemical Accounting

INVOICE 1006

TERMS	INVOICE DATE	ORDER NO.	OUR ORDER NO.		
N 10	4-27-78	13913-00171			
	DESCRIPTION			UNIT PRICE	AMOUNT
80 Drms.	Waste Material Transportation			22.00	$ 1760.00 100.00 $1860.00

PURCHASING DEPT

RECEIVED BY
MAY 3 C P.M.

REMIT TO: P.O. BOX 385
LINDEN, NEW JERSEY 07036

RECEIVED
ACCOUNTS PAYABLE
JUN 05 1978

Category: 4 Emp. No. 061124
By: [signature]

APPROVED BY [signature]

Thank You!

842600493

C222953

ACCOUNTS PAYABLE DISTRIBUTION (USE BLACK INK)

PURCHASE ORDER NUMBER	DUE DATE MO.	DUE DATE DAY	DUE DATE YR.	VENDOR NO.	ENTRY MO.	ENTRY YR.	DOCUMENT NUMBER (Leave Blank)
0,1,3,9,1,3,-0,0,1,7,1	05	07	78	0264827P	05	78	

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT		NET AMOUNT
1005				1860.00

ROM	N – NOT REQUIRED P – PRESENT R – REQUIRED/NOT PRESENT	Qual.	APPROVAL CATEGORY	APPROVAL EMPLOYEE NO.	MANUAL CHECK	SPEC.	TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT.
N		N	4	6,1,1,24			

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	R/C CODE		AMOUNT
		0,0,7,5,0,0	3,6,2	8,1,0,2,3,7	2,2,6	0,1,0,8,1,0	–	1848.00
		7500	362	810,296	226	910810	–	100.00
				211,329	638	910004	–	(88.00)
							–	
							–	
							–	
							–	
							–	

CODED BY	EMPLOYEE NO.	INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)	TOTAL DISTRIBUTION
LD	0,1,5,1,6,5,4	VENDOR	1860.00

842600494

DV CHEMICAL CARTING & PROCESSING
1600 LOWER ROAD
LINDEN, NEW JERSEY 07036

PLEASE PAY ON THIS INVOICE

NP 5/31 JP

SOLD TO Ashland Chemical Co.
400 Doremus Ave.
Newark, New Jersey 07105

INVOICE 1005

Passed For Payment

TERMS	INVOICE DATE	ORDER NO.	OUR ORDER NO.
N 10	4-27-78	13913-00171	

JUN 07 1978

DESCRIPTION	UNIT PRICE	AMOUNT
80 Drms. Waste material	Chemical Accounting	$ 1760.00
Transportation, no addl. charge Gallon Min.		100.00
		$1860.00

REmit to: p.o. Box 385
Linden, New Jersey 07036

RECEIVED BY
JUN 05 1978 P.M.

PURCHASING DEPT

Category	Emp. No.
4	26124

Thank You!

842600495

D255365

ACCOUNTS PAYABLE DISTRIBUTION (USE BLACK INK)

PURCHASE ORDER NUMBER	DUE DATE MO.	DAY	YR.	VENDOR NO.	ENTRY MO.	YR.	DOCUMENT NUMBER (Leave Blank)
01391300117	09	22	78	02648270	09	78	

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1024			2014.00

ROM: N – NOT REQUIRED; P – PRESENT; R – REQUIRED/NOT PRESENT: N

Qual: P

APPROVAL CATEGORY: 3

APPROVAL EMPLOYEE NO.: 611274

MANUAL CHECK:

SPEC.:

TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT.

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	R/C CODE	AMOUNT
		0071510	3612	8102337	226	0108101	1914.00
		7500	3612	8102296	226	0108101	100.00

CODED BY	EMPLOYEE NO.	INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)	TOTAL DISTRIBUTION
W	015654		2014.00

OCT 11 1978

VENDOR CODE

842600496

FROM
ASHLAND CHEMICAL COMPANY
400 DOREMUS AVENUE
NEWARK, NJ
THEIR TRUCK
Carrier

Date 9-13-78

Shipper's Number A33269

Ashland.
ASHLAND CHEMICAL COMPANY
Division of Ashland Oil, Inc

STRAIGHT BILL OF LADING
(Non Transit) SHORT FORM
ORIGINAL—NOT NEGOTIABLE

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any part of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

CONSIGNED TO
DV CHEMICAL CARTING
1600 LOWER ROAD
LINDEN, NEW JERSEY

Mail or Street Address of Consignee for purpose of identification only

ROUTE THEIR TRUCK

DELIVERING CARRIER

CAR OR VEHICLE INITIAL AND NO

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

ASHLAND CHEMICAL COMPANY
(Signature of Consignor)

If charges are to be Prepaid write here, "Prepaid"
COLLECT

QUANTITY	HM	DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	WEIGHT (Subject to Correction)	CLASS OR RATE	CHECK COLUMN
87 DRS	X	RESIN SOLUTION FLAMMABLE LIQUID WASTE MATERIAL			
		GROSS	47490		
		TARE	-23750		
		NET	23740		

TIME IN 3²⁰
TIME OUT 4⁴⁵

CONTAINER PLACARDED WITH
NUMBER 4 TYPE FLAMMABLE LIQUID

SIGNED BY V Dellino
D V CHEMICAL CARTING

RECEIVED BY
[illegible]

RECEIVED BY
[illegible]

IN THE EVENT OF ANY EMERGENCY CONCERNING THE PRODUCT IN THIS SHIPMENT, CALL TOLL-FREE NUMBER 800-424-9300, DAY OR NIGHT.

Received $ ..... to apply in prepayment of the charges on the property described hereon.

Agent or Cashier

Per .....
(The signature here acknowledges only the amount prepaid.)

Charges advanced

$ .....

"The fibre boxes or sacks used for this shipment conform to requirements of Rule 5-40 and 41 of Consolidated Freight Classification."

The description and weight indicated on this bill of lading are correct subject to verification by the APPROPRIATE WEIGHING AND INSPECTION BUREAU according to agreement.

"If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." Note—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ ..... per .....

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Not a bill of lading when moved in a vehicle operated by shipper or owner of product, but merely a receipt for product in behalf of owner.

Carrier certifies that the cargo tank supplied for this shipment is a proper container for the transportation of this commodity.

SIGNATURE

ASHLAND CHEMICAL COMPANY, SHIPPER
400 DOREMUS AVENUE NEWARK NJ

AGENT

PER

Permanent post office address of shipper: P.O. BOX 2219, COLUMBUS, OHIO 43216

8304

842600497

DV CHEMICAL CARTING & PROCESSING
1600 LOWER ROAD
LINDEN, NEW JERSEY 07036

SOLD TO Ashland Chemical Co.
400 Doremus Ave.
Newark, New Jersey 07105

Passed For Payment
OCT 11 1978

INVOICE 1024

Chemical Accounting

TERMS	INVOICE DATE	ORDER NO.	OUR ORDER NO.
N 10	9-18-78	13913-00171	

	DESCRIPTION	UNIT PRICE	AMOUNT
87 Drms.	Waste Material Transportation	22.00	$ 1914.00
			100.00
		EXAMINED CALCULATIONS	$2014.00

OCT
OCT 10 1978

Category 3 | Emp. No. 06124
By John F Burke

ASHLAND CHEMICALS
OCT 10 1978

Thank You!

842600498

D255363

ACCOUNTS PAYABLE DISTRIBUTION

(USE BLACK INK)

PURCHASE ORDER NUMBER	DUE DATE MO.	DUE DATE DAY	DUE DATE YR.	VENDOR NO.	ENTRY MO.	ENTRY YR.	DOCUMENT NUMBER (Leave Blank)
0139130017	09	27	78	0264827	09	78	

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT		NET AMOUNT
1023				2014.00

ROM	N – NOT REQUIRED P – PRESENT R – REQUIRED/NOT PRESENT	Qual.	APPROVAL CATEGORY	APPROVAL EMPLOYEE NO.	MANUAL CHECK	SPEC.	TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT.
N		P	3	6117			

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	R/C CODE		AMOUNT
		00.7500	362	810237	226	010810	-	1914.00
		7500	362	810226	226	010810	-	100.00
							-	
							-	
							-	
							-	
							-	
							-	

CODED BY	EMPLOYEE NO.	INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)	TOTAL DISTRIBUTION
UL	015654		2014.00

OCT 11 1978

VENDOR CODE

842600499

FROM
ASHLAND CHEMICAL COMPANY
400 DOREMUS AVENUE
NEWARK NJ
THEIR TRUCK Carrier

Date 9/8/

Shipper's Number A3326 8

ASHLAND CHEMICAL COMPANY
Division of Ashland Oil, Inc

STRAIGHT BILL OF LADING
(Non Transit) SHORT FORM
ORIGINAL—NOT NEGOTIABLE

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any part of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

CONSIGNED TO DV CHEMICAL CARTING
1600 LOWER ROAD
LINDEN, NEW JERSEY

Mail or Street Address of Consignee for purpose of identification only

ROUTE THEIR TRUCK

DELIVERING CARRIER

CAR OR VEHICLE INITIAL AND NO.

QUANTITY	HM	DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	*WEIGHT (Subject to Correction)	CLASS OR RATE	CHECK COLUMN
8 DRS	X	RESIN SOLUTION FLAMMABLE LIQUID WASTE MATERIAL			
		GROSS	55140		
		TARE	23920		
		NET	31220		

TIME IN 2 15
TIME OUT 3 30

CONTAINER PLACARDED WITH

NUMBER 4 TYPE FLAMMABLE PLACARDS

SIGNED BY J Dellaire
DV CHEMICAL CARTING

RECEIVED BY
P.M.

RECEIVED BY
OCT 1 P M

IN THE EVENT OF ANY EMERGENCY CONCERNING THE PRODUCT IN THIS PACKAGE CALL TELEPHONE NUMBER DAY OR NIGHT.

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

ASHLAND CHEMICAL COMPANY
(Signature of Consignor)

If charges are to be Prepaid type here "Prepaid"

COLLECT

Received $ _____ to apply in prepayment of the charges on the property described hereon.

Agent or Cashier

Per _____
(The signature here acknowledges only the amount prepaid.)

Charges advanced

$ _____

"The fibre boxes or sacks used for this shipment conform to requirements of Rule 5-40 and 41 of Consolidated Freight Classification."

The description and weight indicated on this bill of lading are correct subject to verification by the APPROPRIATE WEIGHING AND INSPECTION BUREAU according to agreement.

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." Note—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ _____ per _____

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation, according to the applicable regulations of the Department of Transportation.

J Dellaire

Not a bill of lading when moved in a vehicle operated by shipper or owner of product, but merely a receipt for product in behalf of owner.

Carrier certifies that the cargo tank supplied for this shipment is a proper container for the transportation of this commodity.

SIGNATURE

ASHLAND CHEMICAL COMPANY, SHIPPER
400 DOREMUS AVENUE NEWARK NJ

J Dellaire
AGENT

PER _____

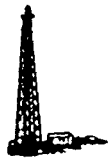
Permanent post office address of shipper: P.O. BOX 2219, COLUMBUS, OHIO 43216

8304

842600500

DV CHEMICAL CARTING & PROCESSING
1600 LOWER ROAD
LINDEN, NEW JERSEY 07036

SOLD TO Ashland Chemical Co.
400 Doremus Ave.
Newark, New Jersey



INVOICE 1023

TERMS	INVOICE DATE	ORDER NO.	OUR ORDER NO.
N 10	9-18-78	13913-00171	RECEIVED

	DESCRIPTION	UNIT PRICE	AMOUNT
87 Drms.	Waste Material Transportation	$22.00	$ 1914.00
			100.00
			$2014.00

Passed For Payment
OCT 10 1978
EXAMINED CALCULATIONS
OCT 10 1978
RECEIVED BY
OCT 11 1978
Chemical Accounting
QUALITY ASSURANCE
REQUIRED BY
ASHLAND CHEMICAL
Category 3
By
1910

Thank You!

842600501

ACCOUNTS PAYABLE DISTRIBUTION (USE BLACK INK)

D255366

PURCHASE ORDER NUMBER	DUE DATE MO.	DAY	YR.	VENDOR NO.	ENTRY MO.	YR.	DOCUMENT NUMBER (Leave Blank)
21391300017	09	27	78	0264827	09	78	

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT		NET AMOUNT
1022				201400

ROM	N – NOT REQUIRED P – PRESENT R – REQUIRED/NOT PRESENT	Qual.	APPROVAL CATEGORY	APPROVAL EMPLOYEE NO.	MANUAL CHECK	SPEC.	TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT.
N		P	3	6A1124			

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	R/C CODE		AMOUNT
		00750100	362	8102337	226	0101810	-	191400
		7500	362	8102996	226	0101810	-	10000
							-	
							-	
							-	
							-	
							-	
							-	

CODED BY	EMPLOYEE NO.	INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)	TOTAL DISTRIBUTION
W	015654		201400

OCT 11 1978

VENDOR CODE

842600502

FROM
ASHLAND CHEMICAL COMPANY
400 DOREMUS AVENUE
NEWARK, NJ

THEIR TRUCK
Carrier

Date
9/[illegible]/78

Shipper's Number
A33267

Ashland

ASHLAND CHEMICAL COMPANY
Division of Ashland Oil, Inc.

STRAIGHT BILL OF LADING
(Non Transit) SHORT FORM
ORIGINAL—NOT NEGOTIABLE

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any part of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

CONSIGNED TO
DV CHEMICAL CARTING
1600 LOWER ROAD
LINDEN, NEW JERSEY

Mail or Street Address of Consignee for purpose of identification only

ROUTE
THEIR TRUCK

DELIVERING CARRIER

CAR OR VEHICLE INITIAL AND NO.

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

ASHLAND CHEMICAL COMPANY
G Clemens
(Signature of Consignor)

If charges are to be Prepaid type here "Prepaid"

COLLECT

QUANTITY	HM	DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	WEIGHT (Subject to Correction)	CLASS OR RATE	CHECK COLUMN
X 87 DRS	X	RESIN SOLUTION FLAMMABLE LIQUID WASTE MATERIAL	GROSS 61000 TARE 23820 NET 37,180		

TIME IN 2 45
TIME OUT 4 30 PM

CONTAINER PLACARDED WITH
NUMBER 4 TYPE FLAMMABLE PLACARDS
SIGNED BY [signature]
DV CHEMICAL CARTING

RECEIVED BY
OCT 2 P.M.

RECEIVED BY
OCT [illegible] P.M.

IN THE EVENT OF ANY EMERGENCY
[illegible] PRODUCT IN THIS
[illegible] CALL [illegible] NUMBER
[illegible] DAY OR NIGHT.

Received $ _____ to apply in prepayment of the charges on the property described hereon.

Agent or Cashier

Per _____
(The signature here acknowledges only the amount prepaid.)

Charges advanced

$ _____

"The fibre boxes or sacks used for this shipment conform to requirements of Rule 5-40 and 41 of Consolidated Freight Classification."

The description and weight indicated on this bill of lading are correct subject to verification by the APPROPRIATE WEIGHING AND INSPECTION BUREAU according to agreement.

"If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." Note—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

per

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation, according to the applicable regulations of the Department of Transportation.

G Clemens

Not a bill of lading when moved in a vehicle operated by shipper or owner of product, but merely a receipt for product on behalf of owner.

Carrier certifies that the cargo tank supplied for this shipment is a proper container for the transportation of this commodity.

SIGNATURE

ASHLAND CHEMICAL COMPANY, SHIPPER
400 DOREMUS AVENUE NEWARK, NJ
G Clemens

AGENT

PER

Permanent post office address of shipper: P.O. BOX 2219, COLUMBUS, OHIO 43216

8304

842600503

This was blurred on film

842600504

2030C-1

ACCOUNTS PAYABLE DISTRIBUTION

(USE BLACK INK)

D255364

PURCHASE ORDER NUMBER	DUE DATE MO.	DUE DATE DAY	DUE DATE YR.	VENDOR NO.	ENTRY MO.	ENTRY YR.	DOCUMENT NUMBER (Leave Blank)
01 3913-00121	09	22	78	02 4482 70	09	78	

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT		NET AMOUNT
1021				2014 00

ROM	N – NOT REQUIRED P – PRESENT R – REQUIRED/NOT PRESENT	Qual.	APPROVAL CATEGORY	APPROVAL EMPLOYEE NO.	MANUAL CHECK	SPEC.	TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT.
N		P	3	61124			

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	R/C CODE		AMOUNT
		007500	362	810237	226	010810	–	1914 00
		7500	362	810296	226	010810	–	100 00
							–	
							–	
							–	
							–	
							–	
							–	

CODED BY	EMPLOYEE NO.	INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)	TOTAL DISTRIBUTION
[illegible]	010654		2014 00

OCT 11 1978

VENDOR CODE

9/28/78

842600505

FROM

ASHLAND CHEMICAL COMPANY
400 DOREMUS AVENUE
NEWARK NJ

THEIR TRUCK Carrier

Date 9/8/92

Shipper's Number A33266

Ashland

ASHLAND CHEMICAL COMPANY
Division of Ashland Oil, Inc

STRAIGHT BILL OF LADING

(Non Transit) SHORT FORM
ORIGINAL—NOT NEGOTIABLE

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any part of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

CONSIGNED TO

DV CHEMICAL CARTING
1600 LOWER ROAD
LINDEN, NEW JERSEY

Mail or Street Address of Consignee for purpose of identification only

ROUTE THEIR TRUCK

DELIVERING CARRIER

CAR OR VEHICLE INITIAL AND NO

QUANTITY	*HM	DESCRIPTION OF ARTICLES, SPECIAL MARKS AND EXCEPTIONS	*WEIGHT (Subject to Correction)	CLASS OR RATE	CHECK COLUMN
8 DRS	X	RESIN SOLUTION FLAMABLE LIQUID WASTE MATERIAL			
		GROSS	55130		
		TARE	23820		
		NET	31310		

TIME IN 1 30

TIME OUT 2 30

CONTAINER PLACARDED WITH

NUMBER 4 TYPE FLAMMABLE ~~DOT~~ PLACARDS

SIGNED BY T DeLima
DV CHEMICAL CARTING

RECEIVED BY

OCT 1 P.M.

RECEIVED

IN THE EVENT OF AN EMERGENCY CONCERNING THE PRODUCTION THIS SHIPMENT, CALL TOLL FREE NUMBER 800-421-8300, DAY OR NIGHT.

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges

ASHLAND CHEMICAL COMPANY

(Signature of Consignor)

If charges are to be Prepaid type here "Prepaid"

COLLECT

Received $ _____ to apply in prepayment of the charges on the property described hereon

Agent or Cashier

Per _____
(The signature here acknowledges only the amount prepaid.)

Charges advanced

$ _____

"The fibre boxes or sacks used for this shipment conform to requirements of Rule 5-40 and 41 of Consolidated Freight Classification."

The description and weight indicated on this bill of lading are correct subject to verification by the APPROPRIATE WEIGHING AND INSPECTION BUREAU according to agreement.

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." Note—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ _____ per _____

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation, according to the applicable regulations of the Department of Transportation.

Not a bill of lading when moved in a vehicle operated by shipper or owner of product, but merely a receipt for product in behalf of owner.

Carrier certifies that the cargo tank supplied for this shipment is a proper container for the transportation of this commodity

SIGNATURE

ASHLAND CHEMICAL COMPANY, SHIPPER

400 DOREMUS AVENUE NEWARK NJ

AGENT

PER _____

Permanent post office address of shipper: P.O. BOX 2219, COLUMBUS, OHIO 43216

8304

842600506

DV CHEMICAL CARTING & PROCESSING
1600 LOWER ROAD
LINDEN, NEW JERSEY 07036

SOLD TO Ashland Chemical Co.
400 Doremus Ave.
Newark, New Jersey 07105

Passed For Payment

INVOICE 1021

OCT 11 1978

TERMS	INVOICE DATE	ORDER NO.	OUR ORDER NO.
N 10	9-18-78	13913-00171	Chemical Accounting

	DESCRIPTION	UNIT PRICE	AMOUNT
87 Drms	Waste Material Transportation	$22.00	$ 1914.00 100.00 $2014.00

EXAMINED CALCULATIONS
OCT 10 1978
ASHLAND CHEMICALS

RECEIVED BY
OCT 3 P.M.

QUALITY ... REQUIRED BY

Category	Emp. No.
3	061124

By John F Burke

PAID

OCT 10 1978

Thank You!

842600507

ACCOUNTS PAYABLE DISTRIBUTION (USE BLACK INK)

D232239

PURCHASE ORDER NUMBER	DUE DATE MO.	DUE DATE DAY	DUE DATE YR.	VENDOR NO.	ENTRY MO.	ENTRY YR.	DOCUMENT NUMBER (Leave Blank)
0139130017	08	13	78	0264827	08	78	

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT		NET AMOUNT
1013				208000

ROM	N – NOT REQUIRED P – PRESENT R – REQUIRED/NOT PRESENT	Qual.	APPROVAL CATEGORY	APPROVAL EMPLOYEE NO.	MANUAL CHECK	SPEC.
N		P	A	61124		

TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT.

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	R/C CODE		AMOUNT
		007500	362	810237	226	010610	–	208000
							–	
							–	
							–	
							–	
							–	
							–	
							–	

CODED BY	EMPLOYEE NO.	INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)	TOTAL DISTRIBUTION
SK	050746		208000

AUG 21 1978

VENDOR CODE

842600508

DV CHEMICAL CARTING & PROCESSING
1600 LOWER ROAD
LINDEN, NEW JERSEY 07036

SOLD TO Ashland Chemical Co
400 Doremus Ave.
Newark, New Jersey 07105

EXAMINED CALCULATIONS
AUG 1 5 1978 ACCOUNTING DEPT
ASHLAND CHEMICAL

INVOICE 1013

P.O.

TERMS	INVOICE DATE	ORDER NO.	OUR ORDER NO.
N 10	8-4-78	13913-00171	

DESCRIPTION	UNIT PRICE	AMOUNT
90 Drms. Waste Material TRansportation	$22.00	$ 1980.00 100.00 $2080.00

RECEIVED BY
AUG 15 A.M.
AUG 17 1978

Category 4 Emp. No. 061124
By: John F Burke

QUALITY ASSURANCE NOT REQUIRED BY

RECEIVED BY
AUG 15 RECEIVED
ACCOUNTS PAYABLE
AUG 15 1978
APPROVED BY

Thank You!

842600509

ACCOUNTS PAYABLE DISTRIBUTION

(USE BLACK INK)

D232240

PURCHASE ORDER NUMBER	DUE DATE MO.	DAY	YR.	VENDOR NO.	ENTRY MO.	YR.	DOCUMENT NUMBER (Leave Blank)
0139173-00171	08	13	78	0264827	08	78	

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1015			18,160 00

ROM: N – NOT REQUIRED; P – PRESENT; R – REQUIRED/NOT PRESENT: N

Qual.: P

APPROVAL CATEGORY: 11

APPROVAL EMPLOYEE NO.: 61124

MANUAL CHECK:

SPEC.:

TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT.

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	R/C CODE	AMOUNT
		007500	362	8102377	226	014F10	18,160 00

CODED BY	EMPLOYEE NO.	INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)	TOTAL DISTRIBUTION
SPK	0507146		18,160 00

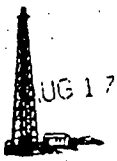
AUG 21 1978

VENDOR CODE

842600510

DV CHEMICAL CARTING & PROCESSING
1600 LOWER ROAD
LINDEN, NEW JERSEY 07036

SOLD TO
Ashland Chemical Co.
400 Doremus Ave.
Newark, New Jersey 07105



AUG 17 1978

INVOICE 1015

TERMS	INVOICE DATE	ORDER NO.	OUR ORDER NO.
N 10	8-4-78	13913-00171	

	DESCRIPTION	UNIT PRICE	AMOUNT
78 Drms.	Waste Material TRansportation	$22.00	$ 1716.00
			100.00
			$1816.00

RECEIVED BY
EXAMINED AS TO CALCULATIONS
AUG 1 5 1978

AUG 1 5 1978

Category 4 Emp. No. [illegible]
By: [signature]

RECEIVED
ACCOUNTS PAYABLE
AUG 15 1978
APPROVED

AUG 1 5 1978

Thank You!

842600511

ACCOUNTS PAYABLE DISTRIBUTION (USE BLACK INK)

D232238

PURCHASE ORDER NUMBER	DUE DATE MO.	DAY	YR.	VENDOR NO.	ENTRY MO.	YR.	DOCUMENT NUMBER (Leave Blank)
0139130017	08	13	78	0264870	08	78	

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT		NET AMOUNT
1614				208000

ROM	N – NOT REQUIRED P – PRESENT R – REQUIRED/NOT PRESENT	Qual.	APPROVAL CATEGORY	APPROVAL EMPLOYEE NO.	MANUAL CHECK	SPEC.	TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT.
N		P	H	61124			

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	R/C CODE		AMOUNT
		007500	362	8102377	226	0108110	–	208000
							–	
							–	
							–	
							–	
							–	
							–	
							–	

CODED BY	EMPLOYEE NO.	INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)	TOTAL DISTRIBUTION
SK	05746		208000

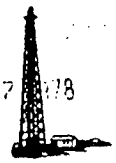
AUG 21 1978

VENDOR CODE

842600512

DV CHEMICAL CARTING & PROCESSING
1600 LOWER ROAD
LINDEN, NEW JERSEY 07036

SOLD TO Ashland Chemical Co.
400 Doremus Ave.
Newark, NEW JERSEY 07105



AUG 17 [illegible]8

PURCHASING DEPT.

INVOICE 1014

TERMS	INVOICE DATE	ORDER NO.	OUR ORDER NO.
N 10	8-4-78	13913-00	RECEIVED BY

	DESCRIPTION	UNIT PRICE	AMOUNT
90 Drms.	Waste Material Transportation	$ 22.00	$ 1980.00
			100.00
			$2080.00

AUG 14 AM CALCULATIONS

AUG 15 1978

RECEIVED
ACCOUNTS PAYABLE
AUG 15 1978
APPROVED

Category 4 Exp. Acct. DC/12 ASHLAND CHEMICAL
By: John J Smith

B8/14

RECEIVED
AUG 14 AM
B

Thank You!

842600513

ACCOUNTS PAYABLE DISTRIBUTION (USE BLACK INK)

D219013

PURCHASE ORDER NUMBER	DUE DATE MO.	DAY	YR.	VENDOR NO.	ENTRY MO.	YR.	DOCUMENT NUMBER (Leave Blank)
0,1,3,9,1,3,-,0,0,1,7,1	0,7	20	78	0,3,6,4,8,2,7,0	0,7	78	

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1,0,1,0			2,0,9,1,2,5

ROM: N – NOT REQUIRED; P – PRESENT; R – REQUIRED/NOT PRESENT: N

Qual.: N | APPROVAL CATEGORY: 3 | APPROVAL EMPLOYEE NO.: 6,1,1,2,4 | MANUAL CHECK: | SPEC.:

TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT.

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	R/C CODE		AMOUNT
		0,0,7,5,0,0	3,6,2	8,1,0,2,3,7	1,2,6	0,1,0,5,1,0	-	1,9,8,0,0,0
		0,0,7,5,0,0	3,6,2	8,1,0,2,9,6	2,2,6	0,1,0,9,8,1,0	-	1,1,1,2,5
							-	
							-	
							-	
							-	
							-	
							-	

CODED BY	EMPLOYEE NO.	INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)	TOTAL DISTRIBUTION
	0-915654		2,0,9,1,2,5

JUL 21 1978

VENDOR CODE

842600514

DV CHEMICAL CARTING & PROCESSING
1600 LOWER ROAD
LINDEN, NEW JERSEY 07036

SOLD TO Ashland Chemical Co.
400 Doremus Ave.
Newark, New Jersey 07105

Passed For Payment
JUL 21 197 PURCHASING DEPT.
RECEIVED
Chemical Accounting

INVOICE 1010

TERMS	INVOICE DATE	ORDER NO.	OUR ORDER NO.
N10	7-10-78	13913-00171	

	DESCRIPTION	UNIT PRICE	AMOUNT
90 Drms.	Waste Material COLUMBUS, OHIO	22.00	$ 1980.00
	Transportation		100.00
	3/4 Hour extra waiting time		11.25
			$2091.25

EXAMINED CALCULATIONS
JUL 20 1978

RECEIVED BY
JUL 20 A.M.

ASHLAND CHEMICAL
3 0C1124
By:

RECEIVED BY
JUL 1 6 P.M.

RECEIVED
ACCOUNTS PAYABLE
JUL 20 1978

Thank You!

APPROVED
BY

842600515

ACCOUNTS PAYABLE DISTRIBUTION (USE BLACK INK)

D219014

PURCHASE ORDER NUMBER	DUE DATE MO.	DAY	YR.	VENDOR NO.	ENTRY MO.	YR.	DOCUMENT NUMBER (Leave Blank)
013913-00171	07	20	78	0364827D	07	78	

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT		NET AMOUNT
1011				214600

ROM	N – NOT REQUIRED P – PRESENT R – REQUIRED/NOT PRESENT	Qual.	APPROVAL CATEGORY	APPROVAL EMPLOYEE NO.	MANUAL CHECK	SPEC.	TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT.
N		N	3	61124			

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	R/C CODE		AMOUNT
		00750C	362	8102376	226	0108102	–	204600
		007500	362	8102976	226	0198102	–	10000
							–	
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							–	
							–	
							–	
							–	

CODED BY	EMPLOYEE NO.	INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)	TOTAL DISTRIBUTION
W	015654		214600

JUL 21 1978

VI.

842600516

1

DV CHEMICAL CARTING & PROCESSING
1600 LOWER ROAD
LINDEN, NEW JERSEY 07036

SOLD TO Ashland Chemical Co.
400 Doremus Ave.
Newark, New Jersey 07105

INVOICE 1011

PURCHASING DEPT.
RECEIVED

TERMS	INVOICE DATE	ORDER NO.	OUR ORDER NO.		
N 10	7-10-78	13913-00171			

	DESCRIPTION	UNIT PRICE	AMOUNT
93 Drms.	Waste Material Transportation	22.00	$ 2046.00

Passed For Payment
JUL 19 A.M.
COLUMBUS, OHIO
JUL 21 1978

RECEIVED
ACCOUNTS PAYABLE
JUL 20 1978

EXAMINED CALCULATIONS
JUL 20 1978 BY

Chemical Accounting
By:

RECEIVED BY
JUL 20 A.M.

RECEIVED BY
ASHLAND CHEMICAL
JUL 18 P.M.

Thank You!

842600517

8116C-1

ACCOUNTS PAYABLE DISTRIBUTION

(USE BLACK INK)

D219015

PURCHASE ORDER NUMBER	DUE DATE MO.	DUE DATE DAY	DUE DATE YR.	VENDOR NO.	ENTRY MO.	ENTRY YR.	DOCUMENT NUMBER (Leave Blank)
01391300171	07	20	78	026648270	07	78	

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT		NET AMOUNT
1012				208000

ROM	N – NOT REQUIRED P – PRESENT R – REQUIRED/NOT PRESENT	Qual.	APPROVAL CATEGORY	APPROVAL EMPLOYEE NO.	MANUAL CHECK	SPEC.	TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT.
N		N	3	61124			

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	R/C CODE		AMOUNT
		007500	362	F10237	226	0108100	–	198000
		007500	362	810296	226	0108100	–	10000
							–	
							–	
							–	
							–	
							–	
							–	

CODED BY	EMPLOYEE NO.	INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)	TOTAL DISTRIBUTION
U–	915654		208000

JUL 24 1978

VENDOR CODE

842600518

DV CHEMICAL CARTING & PROCESSING
1600 LOWER ROAD
LINDEN, NEW JERSEY 07036

SOLD TO Ashland Chemical Co.
400 Doremus Ave.
Newark, New Jersey 07105

Passed For Payment
JUL 21 1978
Chemical Accounting

INVOICE 1012

TERMS	INVOICE DATE	ORDER NO.	OUR ORDER NO.
N 10	7-10-78	13913-00171	PURCHASING DEPT.

	DESCRIPTION	UNIT PRICE	AMOUNT
90 Drms.	Waste Material Transportation	22.00	$ 1980.00
			100.00
			$2080.00

RECEIVED BY
JUL 20 AM
7/14

RECEIVED
JUL 19 A.M.
COLUMBIA CHEMICAL

EXAMINED CALCULATIONS

Company	Emp. No.
3	06112V

By:

JUL 20 1978
ASHLAND CHEMICAL

RECEIVED
JUL 19 P.M.
ACCTG. & PAYABLE

JUL 20 1978

Thank You!

APPROVED
BY

842600519

7083

BATCH CONTROL

Date: 7-24-78

ORIGINATING DEPARTMENT: A/P ASHLAND CHEM

BATCH NO.: 015

BATCH DESCRIPTION: D219016 — D219066

DOCUMENT COUNT (99 MAX.): 51

TOTALS:

☐ CHECK HERE IF NONE

NAME	TOTAL	DATA ENTRY CHECKED BY
TRANSACTIONS		

DATA ENTRY JOB

BATCH

TIME IN

OPERATOR

842600520

ACCOUNTS PAYABLE DISTRIBUTION (USE BLACK INK)

D204682

PURCHASE ORDER NUMBER	DUE DATE MO.	DAY	YR.	VENDOR NO.	ENTRY MO.	YR.	DOCUMENT NUMBER (Leave Blank)
0139-00171	05	08	78	0264820	05	78	

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1007			1860.00

ROM	N – NOT REQUIRED P – PRESENT R – REQUIRED/NOT PRESENT	Qual.	APPROVAL CATEGORY	APPROVAL EMPLOYEE NO.	MANUAL CHECK	SPEC.	TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT.
N		N	3	161124			

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	R/C CODE		AMOUNT
		007500	362	810237	226	010810	–	1848.00
		7500	362	810296	226	010810	–	100.00
				211329	638	010004	–	<88.00>
							–	
						JUN 12 1978	–	
							–	
							–	
						VENDOR	–	

CODED BY	EMPLOYEE NO.	INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)	TOTAL DISTRIBUTION
LW	015654		1860.00

842600521

DV CHEMICAL CARTING & PROCESSING
1600 LOWER ROAD
LINDEN, NEW JERSEY 07036

SOLD TO Ashland Chemical co.
400 Doremus Ave.
Newark, New Jersey 07105

PLEASE PAY ON THIS INVOICE

NP 6/6

Passed For Payment

INVOICE 1007

JUN 09 1978

Chemical Accounting

TERMS	INVOICE DATE	ORDER NO.	OUR ORDER NO.
n 10	4-28-78	13913-00171	

	DESCRIPTION	UNIT PRICE	AMOUNT
80 Drms.	Waste Material Transportation	22.00	$ 1760.00
			100.00
			$1860.00

EXAMINED CALCULATIONS

JUN 09 1978

RECEIVED BY
JUN 07 A.M.

Ship To: P.O. Box 385
Linden, New Jersey

RECEIVED BY
JUN 05 P.M.
PURCHASING DEPT.

Category	Emp. No.
3	06112

By John J Burke

APPROVED 6/7

RECEIVED
JUN 7 A.M.
COLUMBUS, OHIO

Thank You!

842600522

D204683

ACCOUNTS PAYABLE DISTRIBUTION

(USE BLACK INK)

PURCHASE ORDER NUMBER	DUE DATE MO.	DAY	YR.	VENDOR NO.	ENTRY MO.	YR.	DOCUMENT NUMBER (Leave Blank)
0,1,3,9,1,3,-,0,0,1,7,1	0,5	0,8	2,8	0,2,6,4,8,2,2,9	0,5	7,8	

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1009			1,8,6,0,0,0

ROM: N – NOT REQUIRED; P – PRESENT; R – REQUIRED/NOT PRESENT

Qual.	APPROVAL CATEGORY	APPROVAL EMPLOYEE NO.	MANUAL CHECK	SPEC.
N/	3	6,1,1,2,4		

TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT.

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	R/C CODE		AMOUNT
		0,0,7,5,0,0	3,6,2	P,1,0,2,1,7	2,2,6	0,1,0,8,1,0	–	1,8,4,8,0,0
		7,5,0,0	3,6,2	8,1,0,2,9,6	2,2,6	0,1,0,8,1,0	–	1,0,0,0,0
				2,1,3,2,9	6,3,8	0,1,0,0,0,4	–	2,8,8,0,0
							–	
							–	
							–	
							–	
							–	

JUN 12 1978

CODED BY	EMPLOYEE NO.
	0,1,5,2,5,4

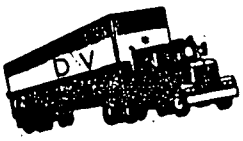
INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)

VENDOR

TOTAL DISTRIBUTION: 1,8,6,0,0,0

842600523

DV CHEMICAL CARTING & PROCESSING
1600 LOWER ROAD
LINDEN, NEW JERSEY 07036



SOLD TO Ashland Chemical Co.
400 Doremus Ave.
Newark, New Jersey 07105

NPL

Passed For Payment

JUN 9 1978

INVOICE 1009

TERMS	INVOICE DATE	ORDER NO.	OUR ORDER NO.	DESCRIPTION	UNIT PRICE	AMOUNT
N 10	4-28-78	13913-00171				
80 Drms.				Waste Material Transportation	22.00	1760.00
						100.00
						1860.00

RECEIVED BY
Chemical Accounting
JUN 07 A.M.

REMIT TO. P.O. Box 385
Linden, New Jersey 07036

RECEIVED
ACCOUNTS PAYABLE
JUN 05 1978

PURCHASING AGENT
RECEIVED
JUN 7 A.M.
COLUMBUS, OHIO

Category 3 | Emp. No. 06112
By [signature] JUN 08 1978

APPROVED
BY [signature]

CHECKED CALCULATIONS
JUN 09 1978
ASHLAND CHEMICAL

Thank You!

842600524

842600525

C239408

9930C-1

ACCOUNTS PAYABLE DISTRIBUTION

(USE BLACK INK)

PURCHASE ORDER NUMBER	DUE DATE MO.	DUE DATE DAY	DUE DATE YR.	VENDOR NO.	ENTRY MO.	ENTRY YR.	DOCUMENT NUMBER (Leave Blank)
0139130-00171	09	01	78	026482700	08	78	

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT		NET AMOUNT
1017				2102 00

ROM: N – NOT REQUIRED; P – PRESENT; R – REQUIRED/NOT PRESENT

ROM	Qual.	APPROVAL CATEGORY	APPROVAL EMPLOYEE NO.	MANUAL CHECK	SPEC.
N	P	1	628774		

TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT.

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	R/C CODE		AMOUNT
		007500	362	8102377	226	0108100	–	2002 00
		7500	362	8102796	226	0108100	–	100 00
							–	
							–	
							–	
							–	
							–	
							–	

CODED BY	EMPLOYEE NO.	INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)	TOTAL DISTRIBUTION
[illegible]	915654	SEP 01 1978	2102 00

VENDOR CODE

842600526

DV CHEMICAL CARTING & PROCESSING
1600 LOWER ROAD
LINDEN, NEW JERSEY 07036

Passed For Payment
AUG 31 1978
Chemical Accounting

INVOICE 1017

SOLD TO Ashland Chemical Co.
400 Doremus Ave.
Newark, New Jersey 07105

TERMS	INVOICE DATE	ORDER NO.	OUR ORDER NO.
N 10	8-23-78	13913-00171	

RECEIVED
ACCOUNTS PAYABLE
AUG 30 1978

DESCRIPTION	UNIT PRICE	AMOUNT
91 Drms. Waste Material Transportation		$2002.00
		100.00
		$2102.00

EXAMINED CALCULATIONS
APPROVED AUG 31 1978
BY
ASHLAND CHEMICAL

RECEIVED
AUG 30 A.M.
PURCHASING DEPT.
COLUMBUS, OHIO

Category 1 | Emp. No. 62824
By:

86130

Thank You!

842600527

C239407

ACCOUNTS PAYABLE DISTRIBUTION

(USE BLACK INK)

PURCHASE ORDER NUMBER	DUE DATE MO.	DAY	YR.	VENDOR NO.	ENTRY MO.	YR.	DOCUMENT NUMBER (Leave Blank)
0139130017	09	01	78	0264827P	08	78	

INVOICE NUMBER	GROSS AMOUNT	DISCOUNT		NET AMOUNT
1016				2087.50

ROM: N – NOT REQUIRED; P – PRESENT; R – REQUIRED/NOT PRESENT

Qual.	APPROVAL CATEGORY	APPROVAL EMPLOYEE NO.	MANUAL CHECK	SPEC.
P	1	628794		

TOTAL DISTRIBUTION MUST AGREE WITH TOTAL NET AMOUNT.

STATISTICAL	QUANTITY	DETAIL	PREFIX	ACCOUNT	SUFFIX	R/C CODE	AMOUNT
		900.7500	362	8102377	226	0108100	1980.00
		7.500	362	8102377	226	0108100	107.50

CODED BY	EMPLOYEE NO.	INFORMATION TO BE ENTERED ON CHECK STUB (NOT TO EXCEED 240 CHARACTERS)	TOTAL DISTRIBUTION
VR	015654		2087.50

SEP 01 1978

VENDOR CODE

842600528

DV CHEMICAL CARTING & PROCESSING
1600 LOWER ROAD
LINDEN, NEW JERSEY 07036

SOLD TO Ashland Chemical Co.
400 Doremus Ave.
Newark, New Jersey 07105

Passed For Payment
AUG 31 1978

INVOICE 1016

Chemical Accounting

TERMS	INVOICE DATE	ORDER NO.	OUR ORDER NO.	INVOICE	AMOUNT
N 10	8-23-78	13913-00171		$22.00	$1980.00

RECEIVED BY
AUG 2 [illegible]

DESCRIPTION			
90 Drms.	Waste Material		7.50
	1/2 Hour Add'l	Watting time	100.00
	Treanportation		$2087.50

RECEIVED
ACCOUNTS PAYABLE
AUG 30 1978

EXAMINED CALCULATIONS

PURCHASING DEPT.
RECEIVED AUG 31 1978

APPROVED
BY
AUG 31 ASHLAND CHEMICAL

Category | Emp. No.
COLUMBUS, OHIO

By:

Thank You!

842600529

DEPARTMENT OF ENVIRONMENTAL PROTECTION
SOLID WASTE ADMINISTRATION

A

SPECIAL WASTE MANIFEST

A 18406

SECTION I TO BE COMPLETED BY THE SPECIAL WASTE GENERATOR

Plant Identification Number 0 5 1 0 0 Pick-Up Date 0 7 / 0 5 / 7 8 (MO. / DAY / YR.)

Company Name ASHLAND CHEMICAL COMPANY

Pick Up Address 400 DOREMUS AVENUE NEWARK, NEW JERSEY

Name of Hauler D&Y CHEMICAL CARTING 1600 LOWER ROAD LINDEN NEW JERSEY

Name of Facility CHEMICAL CONTROL 23 SMITH RD ELIZABETH, NJ

Handling Instructions

Emergency Spill Phone Nos.: 609-292-5560 or 609-292-7172

Waste Type	Number of Containers	Physical State	Hazard ID	Total Quantity (Identify units in pounds or gallons use P for pounds and G for gallons)	Pounds or Gallons	SECTION V TO BE COMPLETED BY THE SPECIAL WASTE FACILITY OPERATOR: Rejected Amount
1. Acid Solution						
2. Alkaline Solution						
3. Arsenic Residues						
4. Chromic Residues						
5. Cyanide Residues						
6. Contaminated Dioxin, Furan Residues						
7. Fluoride, Pesticide, & Plating Residue						
8. Explosive Residue						
9. Filter Clays, Filter Aids						
10. Ester, Alcohol, Ether, Ketone, Glycol Residues						
11. Heavy Metal Residue						
12. Organic and Heavy Metal Residue Mixture						
13. Latex Residue						
14. Peroxide						
15. Oil and Oil Sludges, Emulsions						
16. Paint and Pigment Residues						
17. Pesticides						
18. Pharmaceutical Wastes (Drugs, etc.)						
19. Laminators, Amines, Mercaptans, Amide						
20. Plasticizer, Resin, Monomer, Elastomer Residues	1	L	P	1050	G	0
21. PCB/PBB Contaminated Materials						
22. Solvent, Halogenated Organic						
23. Solvent, Mixed						
24. Still Bottoms						
25. Radioactive Residue						
26. Tetraethyl Lead Residues						
Other (See Instructions)						
27.						
28.						
29.						
30.						

I certify that the above information is correct to the best of my knowledge.
Date: _____ Signature and Title SENIOR CLERK TYPIST

SECTION II TO BE COMPLETED BY THE SPECIAL WASTE HAULER

I certify that the described quantity of material (s) listed in Section I was collected by me. State: NJ Number: K M L 1 0 K
Date 9.15.78 Signature _____ Vehicle License Plate Number

SECTION III TO BE COMPLETED BY THE SPECIAL WASTE HAULER

Name of Hauler D & Y Chemical Carting Address 1600 Lower Rd
I certify that the described quantity of material (s) listed in Section I was hauled by me to the Special Waste Facility named in Section I.
Date 9-15-78 Signature _____ Vehicle License Plate Number NJ K M L 1 0 K

SECTION IV TO BE COMPLETED BY THE SPECIAL WASTE FACILITY

Name of Facility Chemical Control Address 23 South Jefferson Elizabeth
Registration Number 20048 Date Waste Received 9/15/78 X Accepted Rejected
I certify that the hauler stated above delivered the waste described in Section I to this Facility.

842600530

DEPARTMENT OF ENVIRONMENTAL PROTECTION
SOLID WASTE ADMINISTRATION

SPECIAL WASTE MANIFEST

A 18405

SECTION I TO BE COMPLETED BY THE SPECIAL WASTE GENERATOR

Plant Identification Number: 0 5 K 0 4 | Pick Up Date: 07 (MO.) 05 (DAY) 78 (YR.)
Company Name: ASHLAND CHEMICAL COMPANY
Pick-Up Address: 405 DOREMUS AVENUE NEWARK, NEW JERSEY
Name of Hauler: DX CHEMICAL CARTING 1600 LOWER ROAD LINDEN NEW JERSEY
Name of Facility: CHEMICAL CONTROL 23 SMITH RD ELIZABETH, NJ
Handling Instructions:
Emergency Spill Phone Nos.: 609-292-5560 or 609-292-7172

	Waste Type	Number of Containers	Physical State	Hazard ID.	Total Quantity (Identify units in pounds or gallons use P for pounds and G for gallons)	Pounds or Gallons	SECTION V TO BE COMPLETED BY THE SPECIAL WASTE FACILITY OPERATOR: Rejected Amount
1.	Acid Solution						
2.	Alkaline Solution						
3.	Arsenic Residues						
4.	Catalyst Residues						
5.	Cyanide Residues						
6.	Chlorinated Dioxin, Furan) Residues						
7.	Etching, Pickling, & Plating Residue						
8.	Explosive Residue						
9.	Filter Clays, Filter Aids						
10.	Ester, Alcohol, Ether, Ketone, Glycol Residues						
11.	Heavy Metal Residue						
12.	Organic and Heavy Metal Residue Mixture						
13.	Latex Residue						
14.	Peroxide						
15.	Oil and Oil Sludges, Emulsions						
16.	Paint and Pigment Residues						
17.	Pesticides						
18.	Pharmaceutical Wastes (Drugs, etc.)						
19.	Lacramators, Amines, Mercaptans, Amide						
20.	Plasticizer, Resin, Monomer, Elastomer Residues	1	L	F	4950	G	
21.	PCB,PBB Contaminated Materials						
22.	Solvent, Halogenated Organic						
23.	Solvent Mixed						
24.	Still Bottoms						
25.	Radioactive Residue						
26.	Tetraethyl Lead Residues						
	Other (See Instructions)						
27.							
28.							
29.							
30.							

I certify that the above information is correct to the best of my knowledge.
Date 7-5-78 Signature and Title SENIOR CLERK TYPIST

SECTION II TO BE COMPLETED BY THE SPECIAL WASTE HAULER

I certify that the described quantity of material (s) listed in Section I was collected by me. State NJ Number XWL104
Date 7-5-78 Signature _____ Vehicle License Plate Number

SECTION III TO BE COMPLETED BY THE SPECIAL WASTE HAULER

Name of Hauler DX CHEMICAL CARTING Address 1600 LOWER RD
I certify that the described quantity of material (s) listed in Section I was hauled by me to the Special Waste Facility named in Section I
Date 7-5-78 Signature _____ Vehicle License Plate Number NJ XWL104

SECTION IV TO BE COMPLETED BY THE SPECIAL WASTE FACILITY

Name of Facility Chemical Control Corp Address 23 South Front St Elizabeth
Registration Number 20049 Date Waste Received 7/5/78 Accepted Rejected
I certify that the hauler stated above delivered the waste described in Section I to this Facility.
Date 7/5/78 Signature and Title _____

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DEPARTMENT OF ENVIRONMENTAL PROTECTION
SOLID WASTE ADMINISTRATION

A

SPECIAL WASTE MANIFEST

A 18404

SECTION I TO BE COMPLETED BY THE SPECIAL WASTE GENERATOR

Plant Identification Number 05 13-0 | Pick-Up Date 07 -05-78 (MO DAY YR)
Company Name ASHLAND CHEMICAL COMPANY
Pick-Up Address 400 DOREMUS AVENUE NEWARK NEW JERSEY
Name of Hauler DV CHEMICAL CARTING 1600 LOWER ROAD LINDEN, NEW JERSEY
Name of Facility CHEMICAL CONTROL 23 SMITH ST ELIZABETH, NEW JERSEY

Handling Instructions

Emergency Spill Phone Nos.: 609-[illegible]-5560 or 609-292-7172

Waste Type	Number of Containers	Physical State	Hazard ID	Total Quantity (Identify units in pounds or gallons use P for pounds and G for gallons)	Pounds or Gallons	SECTION V TO BE COMPLETED BY THE SPECIAL WASTE FACILITY OPERATOR: Rejected Amount
1. Acid Solution						
2. Alkaline Solution						
3. Arsenic Residues						
4. Catalyst Residues						
5. Cyanide Residues						
6. Chlorinated Dioxin, Furan Residues						
7. Etching, Pickling, & Plating Residue						
8. Explosive Residue						
9. Filter Clays, Filter Aids						
10. Ester, Alcohol, Ether, Ketone, Glycol Residues						
11. Heavy Metal Residue						
12. Organic and Heavy Metal Residue Mixture						
13. Latex Residue						
14. Peroxide						
15. Oil and Oil Sludges, Emulsions						
16. Paint and Pigment Residues						
17. Pesticides						
18. Pharmaceutical Wastes (Drugs, etc.)						
19. Lacrimators, Amines, Mercaptans, Amide						
20. ~~Plasticizer~~, Resin, Monomer, ~~Elastomer Residues~~	1	L	7	4950	G	
21. PCB,PBB Contaminated Materials						
22. Solvent, Halogenated Organic						
23. Solvent, Mixed						
24. Still Bottoms						
25. Radioactive Residue						
26. Tetraethyl Lead Residues						
Other (See Instructions)						
27.						
28.						
29.						
30.						

I certify that the above information is correct to the best of my knowledge.
Date 7-5-78 Signature and Title SENIOR CLERK TYPIST [signature]

SECTION II TO BE COMPLETED BY THE SPECIAL WASTE HAULER

I certify that the described quantity of material (s) listed in Section I was collected by me.
Date 7.5.78 Signature [signature] Vehicle License Plate Number State NJ Number X M L 1 6 V

SECTION III TO BE COMPLETED BY THE SPECIAL WASTE HAULER

Name of Hauler DV CHEMICAL CARTING Address 1600 LOWER RD LINDEN
I certify that the described quantity of material (s) listed in Section I was hauled by me to the Special Waste Facility named in Section I
Date 7-5-78 Signature [signature] Vehicle License Plate Number N V X M L 1 6 V

SECTION IV TO BE COMPLETED BY THE SPECIAL WASTE FACILITY

Name of Facility CHEMICAL CONTROL CORP Address 23 SOUTH FOURTH ST, ELIZABETH, NJ
Registration Number 2000 A Date Waste Received 9 / 13 / 78 ☑ Accepted ☐ Rejected
I certify that the hauler stated above delivered the waste described in Section I to this Facility.
Date 9/13/78 Signature and Title [signature] AVP

file Rensselaer Newark NJ

Copy of this memo in Rensselaer only

MEMORANDUM

TO: G. W. Hammer

DATE: August 1, 1986

FROM: A. A. Hendrickson

CC: RCS*

SUBJECT: NY State Hazardous Waste Questionnaire

The attached forms were completed for Rensselaer, Generator and Transporter, and Newark, New Jersey, Generator only. As you can see, we can provide little information before the recent RCRA regulations went into effect (November 19, 1980). Even then we are required to keep records only 3 years. Apparently these questionnaires were originally sent out in March 1984, but not returned.

Please review, comment and approve these forms by signing at the bottom. They are due by August 5.

AAH:dli
Attachment

842600532

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID AND HAZARDOUS WASTE

50 WOLF ROAD
ALBANY, NEW YORK 12233

TRANSPORTER FORM
PART - I

HAZARDOUS WASTE DISPOSAL QUESTIONNAIRE

PLEASE COMPLETE AND RETURN TO THE ABOVE ADDRESS, ATTENTION: RTK PROCESSING UNIT, ROOM 525

COMPANY NAME		ICS CODE EPA ID NUMBER	T0J02307
COMPANY MAILING ADDRESS	ASHLAND CHEMICAL COMP	STATE	ZIP CODE
PLANT NAME (if different)	221 FOUNDRY STREET NEWARK NJ 07105	ITACT NAME	TELEPHONE
PLANT ADDRESS (if different) STREET	CITY	STATE	ZIP CODE
PRINCIPAL BUSINESS OF PLANT			

PLEASE ANSWER QUESTIONS 1 THRU 5

a) SINCE JANUARY 1, 1952 THRU DECEMBER 31, 1981, HAVE YOU OR ANY PREVIOUS OWNERS/OPERATORS OF THIS COMPANY TRANSPORTED ANY HAZARDOUS WASTE? (SEE INSTRUCTIONS) YES ____ NO X

Ashland Chemical has not, to the best of our knowledge, transported hazardous waste in the state of New York during this period.

IF ANY HAZARDOUS WASTE HAS BEEN TRANSPORTED PLEASE COMPLETE TRANSPORTER FORM PART II

b) HAS THE COMPANY LISTED ABOVE CHANGED ITS NAME OR IDENTIFICATION BECAUSE THERE WAS A CHANGE IN OWNERSHIP, CORPORATE NAME OR OPERATOR NAME, ETC. IF YES, LIST THE NAMES BY WHICH THE COMPANY HAS BEEN IDENTIFIED SINCE JANUARY 1, 1952 TO THE PRESENT. INCLUDE NAMES AND ADDRESSES OF PREVIOUS OWNERS /OPERATORS. YES X NO ____

COMPANY NAME AND ADDRESS	OWNER/OPERATOR NAME AND ADDRESS	DATES
Chemical Solvents Company 221 Foundry Street Newark, NJ	Chemical Solvents Co. is presently no longer in business.	

2) DID YOUR COMPANY TRANSPORT ANY HAZARDOUS WASTE BEFORE 1952? YES ____ NO X

Ashland Chemical was not in existence before 1952.

3) DESCRIBE THE DOCUMENTS FROM WHICH DATA IN PART II WAS OBTAINED (SEE INSTRUCTIONS).

DOCUMENT DESCRIPTION	DATES
There are no internal reports or studies. This information was obtained from an employee with 29 years' experience.	

4) I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT INFORMATION SUPPLIED IS TRUE AND COMPLETE. FALSE STATEMENTS SUBMITTED ON THIS DOCUMENT ARE PUNISHABLE PURSUANT TO SECTION 210.45 OF THE PENAL LAW.

NAME OF OWNER/OPERATOR, PARTNER OFFICER OR AUTHORIZED REPRESENTATIVE | TITLE | DATE

SIGNATURE | BUSINESS PHONE

842600533

NAME	TRANSPORTER ID	
ADDRESS		
CITY	STATE	ZIP

TRANSPORTER FORM

PART-II

T

DATE _____

1. HAZARDOUS WASTE DISPOSAL SITE (SEE INSTRUCTIONS)	2. NAME OF FIRM-COMPANY THAT PRODUCED INDUSTRIAL WASTE (SEE INSTRUCTIONS)	3. DATES OF SHIPMENT (MONTH) (YEAR)	4. DESCRIPTION OF HAZARDOUS WASTES DEPOSITED AT THIS LOCATION (SEE INSTRUCTIONS)	5. EPA WASTE CODE	6. WASTE DISPOSED OF QUANTITY OF WASTE (TONS)	FORM		
						LIQUID	SOLID	DRUMS

84260534

Received NJ DEP
Admin JUN 19 1989

Ashland Chemical Company
DIVISION OF ASHLAND OIL, INC.

INDUSTRIAL CHEMICALS & SOLVENTS DIVISION • P.O. BOX 2219, COLUMBUS, OHIO 43216 • (614) 889-3333

REPLY TO:
2025 Lincoln Highway
Suite 232
Edison, New Jersey 08817
PHONES: Edison (201) 287-3344
New York (212) 962-0615

June 16, 1989

New Jersey Department of
Environmental Protection
Division of Hazardous Waste Management
401 East State Street-5th Floor
CN 028
Trenton, New Jersey 08625

Attention: Manifest Section - Annual Reports

To Whom It May Concern:

Enclosed are completed Hazardous Waste Generation Waste Minimization Report 1988 survey, Hazardous Waste Generator Annual Report 1988-Report Form, 1987/1988 Waste Minimization Report Data Form and a $300.00 check to cover our fees.

These documents should keep us in accordance with New Jersey Hazardous Waste Regulations. (N.J.A.C. 7.26-7.4 (g) 1).

Thank you,
ASHLAND CHEMICAL COMPANY

David L. Flood
OFFICE MANAGER

DLF/jaf

cc: Dick Gose
Ed Kelly
John Parzych
Arlene Hendrickson
Jack Sweet

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NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF HAZARDOUS WASTE MANAGEMENT
HAZARDOUS WASTE GENERATOR WASTE MINIMIZATION REPORT: 1988

Company: ASHLAND CHEMICALS, DIV OF ASHLAND OIL INC. (Name) EPA ID No.: NJ D066803405

Mailing Address: 2025 North Lincoln Hwy Suite 232 EDISON, NJ 08817 (Street) (City) (State/Zip Code)

Location of Generator Site: 221 FOUNDRY STREET NEWARK, NJ 07105 (If different from mailing address)

Contact Person: EDWARD Kelly (Name) (201)287-3344 (Telephone Number)

E C Kelly (Signature) DISTRICT MANAGER (Title)

PART I - PLEASE COMPLETE THE FOLLOWING SURVEY AND REPORT. FOR ASSISTANCE CALL (609) 292-8341

DEFINITIONS

Create - means to start the type of activity referred to in the question

Expand - means to improve upon or increase the scope of an active or existing activity

Recycling - means the processes constituting "use or reuse" and "reclamation". "Use or reuse" means the procedure whereby a residual is employed as an ingredient in an industrial process to make a product. "Reclamation" means a procedure whereby a material is treated to recover a useable product, or where a material is regenerated. For example, distillation and recovery of spent solvents for reuse is recycling.

Source Reduction - means the reduction or elimination of the volume and/or toxicity of hazardous waste generation at the source, usually within a process or procedure before the waste is generated.

1. Did this site create or expand a source reduction and recycling program?

	Prior Years Yes	Prior Years No	1987 Yes	1987 No	1988 Yes	1988 No
Create	☒	☐	☒	☒	☐	☒
Expand	☐	☒	☒	☒	☒	☐

2. Did this site have a written policy or statement that outlined goals, objectives and methods for source reduction and recycling of hazardous waste?

	Prior Years	1987	1988
Yes	☒	☒ DRAFT	☒ DRAFT
No	☐	☒	☒

3. What was the dollar amount of capital expenditures (plant and equipment) and operating costs devoted to source reduction and recycling of hazardous waste? Enter zero (0) if none.

	Prior Years	1987	1988
Capital expenditures	$ 0	$ 0	$ 0
Operating costs	$ 0	$ 0	$ 0

4. Did this site have an employee training program or provide incentives (bonuses, awards, personal recognition, etc.) to identify and implement source reduction and recycling opportunities and activities?

	Prior Years Yes	Prior Years No	1987 Yes	1987 No	1988 Yes	1988 No
Training	☒	☐	☒	☒	☐	☒
Incentives	☒	☐	☐	☒	☐	☒

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EPA ID No. NJD066837[illegible]

WASTE MINIMIZATION - PART I - Continued

9. What factors have delayed or prevented implementation of on-site or off-site RECYCLING opportunities. MARK ☒ FOR ALL THAT APPLY.

- ☒ a. Insufficient capital to install new recycling equipment or implement new recycling practices.
- ☐ b. Lack of technical information on recycling techniques applicable to this site's specific production processes.
- ☒ c. Recycling is not economically feasible: cost savings in waste management or production will not recover the capital investment.
- ☒ d. Concern that product quality may decline as a result of recycling.
- ☐ e. Requirements to manifest wastes inhibit shipments off site for recycling.
- ☐ f. Financial liability provisions inhibit shipments off site for recycling.
- ☐ g. Technical limitations of product processes inhibit shipments off site for recycling.
- ☐ h. Technical limitations of productin processes inhibit on-site recycling.
- ☐ i. Permitting burdens inhibit recycling.
- ☐ j. Lack of permitted off-site recycling facilities.
- ☐ k. Unable to identify a market for recyclable materials.
- ☐ l. Other (Specify) _____

10. Has this site requested or received technical information or financial assistance on source reduction and/or recycling practices from any of the following sources? MARK ☒ FOR ALL THAT APPLY.

	Prior Years		1987		1988	
	Technical	Financial	Technical	Financial	Technical	Financial
a. Local government	☐	☐	☐	☐	☐	☐
b. State government	☐	☐	☐	☐	☐	☐
c. Federal government	☐	☐	☐	☐	☐	☐
d. Trade associations	☐	☐	☐	☐	☐	☐
e. Educational institutions	☐	☐	☐	☐	☐	☐
f. Suppliers	☐	☐	☐	☐	☐	☐
g. Other parts of your firm	☒	☒	☒	☒	☒	☒
h. Other firms/consultants	☐	☐	☐	☐	☐	☐
i. No request made	☐	☐	☐	☐	☐	☐
j. Other (conferences, literature, etc.)	☐	☐	☐	☐	☐	☐

Comments: MANY TIMES ARE WASTE IS SOLD TO recycling Companies. We also sell CE marked products to customers including a Material Safety Data Sheet) emitted of recycling the product.

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NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
HAZARDOUS WASTE GENERATOR ANNUAL REPORT 1988
- REPORT FORM -

1. Generator Name Ashland Chemical Co. DIv of Ashland Oil Inc.

2. USEPA ID Number NJ DO60803905

3. Site Address 221 Foundry Street
Newark,N.J. 07105

4. Transporter Name Marisol Inc.

5. Transporter USEPA ID Number NJ DEPSL209

6. TSD Facility Name Marisol, Inc.

7. TSD Facility EPA ID Number NJD002454544

8. TSD Address 125 Factory Lane
Middlesex, NJ 08846

9.

Waste A.) Number (I)	Waste B.) Description (11)	DOT Haz C.) Class (11 or J)	Total D.) Quantity (13)	E.) Units (14)
F003	RQ Waste Flammable Liq NOS (F003)	Flammable Liquid UN1993	100,940	P

NOTE: For each combination of transporter and treatment, storage and disposal facility (TSDF), list the TOTAL quantity manifested for each waste type.

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PART II: 1987/1988 WASTE MINIMIZATION REPORT DATA

EPA ID #: NJDC4083105

Waste Stream	a. New Jersey Waste Number (See your Manifest or Annual Report)	1987 b. Enter total Amount and Unit of Waste	1987 c. Total Amount of Product Produced and Unit of Production (See Page 3)	1987 d. Amount of Waste Divided by Total Amount of Production d = b/c	1988 e. Enter total Amount and Unit of Waste	1988 f. Total Amount of Product Produced and Unit of Production (See Page 3)	1988 g. Amount of Waste Divided By Total Amount of Production g = e/f	h. Increase or Decrease of Amount of Waste Divided by Unit of Production h = g - d
A. 1	a. F003	b. 206 G	c. N/A	d. N/A	e. 100440 P	f. 50,000,000 PR	g. .002 P/PR.	h. .002 P/PR
A. 2	I. Reduction Code: 0002	J. Disposal Code: RF	K. SIC CODE for Waste Stream A: 5169		L. Product Produced:		M. Source Code: A	
A. 3	n. PROCESS DESCRIPTION: By Mixed solvent chemicals from Flushing Lines, pumps, tanks				o. PROJECTED % RED./CODE(S) - 50%/7			
B. 1	a.	b.	c.	d.	e.	f.	g.	h.
B. 2	I. Reduction Code:	J. Disposal Code:	K. SIC CODE for Waste Stream B:		L. Product Produced:		M. Source Code:	
B. 3	n. PROCESS DESCRIPTION:				o. PROJECTED % RED./CODE(S) -			
C. 1	a.	b.	c.	d.	e.	f.	g.	h.
C. 2	I. Reduction Code:	J. Disposal Code:	K. SIC CODE for Waste Stream C:		L. Product Produced:		M. Source Code:	
C. 3	n. PROCESS DESCRIPTION:				o. PROJECTED % RED./CODE(S) -			
D. 1	a.	b.	c.	d.	e.	f.	g.	h.
D. 2	I. Reduction Code:	J. Disposal Code:	K. SIC CODE for Waste Stream D:		L. Product Produced:		M. Source Code:	
D. 3	n. PROCESS DESCRIPTION:				o. PROJECTED % RED./CODE(S) -			
E. 1	a.	b.	c.	d.	e.	f.	g.	h.
E. 2	I. Reduction Code:	J. Disposal Code:	K. SIC CODE for Waste Stream E:		L. Product Produced:		M. Source Code:	
E. 3	n. PROCESS DESCRIPTION:				o. PROJECTED % RED./CODE(S) -			
F. 1	a.	b.	c.	d.	e.	f.	g.	h.
F. 2	I. Reduction Code:	J. Disposal Code:	K. SIC CODE for Waste Stream F:		L. Product Produced:		M. Source Code:	
F. 3	n. PROCESS DESCRIPTION:				o. PROJECTED % RED./CODE(S) -			

Let's protect our earth

Zit
ICS Newark Water
NJ

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

CN 029
Trenton, N.J. 08625-0029

Office of
the Director

(609) 292-1637
Fax # (609) 984-7938

MAY 3 0 1990

Ashland Chemical Inc.
P O Box 2219
Columbus, Ohio 43216

RECEIVED
JUN 0 5 1990

Attn: Glenn W. Hammer

Re: NJPDES Permit No. NJ0076651
Facility Name: Ashland Chemical Inc.
Municipality: Newark
County: Essex
Discharge/Activity: Industrial/Commerical
Surface Water Discharge
Category: B

Dear Mr. Hammer:

This letter is to inform you that your NJPDES application has been received by the Bureau of Information Systems and forwarded to the Bureau of Industrial Discharge Permits for further review.

If this is a renewal application please be advised that the conditions of an expired permit are continued in force pursuant to the "Administrative Procedure Act", N.J.S.A. 52:14B-11, until the effective date of a new permit if:

1. The permittee has submitted timely and complete application for renewal as provided in N.J.A.C. 7:14A-2.1, 3.2 (DSW), 4.4 (IWMF), 5.8 (UIC), and 10; and

2. The Department, without fault on the part of the permittee, fails to issue a new permit with an effective date on or before the expiration date of the previous permit (e.g., when issuance is impractible due to constraints of time or resources).

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New Jersey is an Equal Opportunity Employer
Recycled Paper

Any questions concerning the status of your application should be directed to the Bureau of Industrial Discharge Permits at (609) 292-4860.

Sincerely,

Kim Ingber

Kim Ingber
Technician, M.I.S.
Bureau of Information Systems
Management Services Element

KJ:tvm

c: Bureau of Industrial Discharge Permits
Enforcement Element Metro Bureau

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State of Maryland

OFFICE OF ENVIRONMENTAL PROGRAMS

DEPARTMENT OF HEALTH AND MENTAL HYGIENE

201 WEST PRESTON STREET • BALTIMORE, MARYLAND 21201 • Area Code 301 • 383-5734

Harry Hughes, Governor

Charles R. Buck, Jr., Sc.D. Secretary

APPLICATION FOR CERTIFICATION AS A CONTROLLED HAZARDOUS SUBSTANCES HAULER
(please print or type - attach additional sheets if necessary)

1. Name of Applicant Ashland Chemical Company

2. Name of Business/Mailing Address
221 Foundry Street, Newark, New Jersey 07105

3. Maryland Address (All Maryland locations if applicable)
Not Applicable

4. EPA Identification No. NJD060803905

5. Telephone No. (Include emergency numbers) 201-344-333 (Ashland Oil Emergency Reporting No. 606/324-1133)

6. Business Owner(s) Ashland Chemical Company - Division Of Ashland Oil, Inc.

7. Number of vehicles involved in CHS transportation 2

8.

Check the type(s) of waste which will be transported		Check the hazard group(s) (as defined in 49 CFR Part 173) which will be transported	
Bulk Solid		Flammable	X
Bulk Liquid		Corrosive	X
Sludge		Poison	X
Containerized	X	Low-Level Radioactive	
Other		Oxidizer	
		Other	

9. Quantity (estimated) of CHS to be transported per month: 17,500 lbs.
_____ gallons _____ curies

10. Sources of CHS (anticipated) Various customers in Eastern Maryland

11. 1982 Maryland CHS Certificate Number HWH-82A-1480 + 1

12. Destinations of shipments (if known) Emelle, Alabama or Linden, New Jersey

13. Are you certified to transport hazardous waste in any other state? Yes
Identify state, certification numbers and years permitted (NJ - Until 4/30/83 - #5-8612) (PA - Until 6/29/84 - #AHE-121) (DE - Until 12/1/83 - #OH-157) (NY - Until 11/30/83 - #JA170)

14. Have you ever had a hazardous waste permit or certificate revoked or suspended in Maryland? No If yes, please explain

15. Have you ever been penalized for violation of any federal or state environmental law or regulation? Yes If yes, please explain Procedural errors in air permit renewals at Newark, New Jersey plant. Fined by NJDEP.

16. Complete the attached sheet(s) for each vehicle used to transport CHS (Make copies if additional forms are necessary).

CONDITIONS FOR ISSUANCE

As a condition for issuance of this certification, I agree to comply with the provisions of the Health Environmental Article, Section(s) 7-249 thru 7-252, Annotated Code of Maryland and COMAR 10.51 and agree to: (1) Secure a bond of not less than $10,000.00 according to the provisions of the regulations COMAR 10.51.04.04, for the purpose of indemnifying the State for abatement of

842600543

pollution resulting from the improper transportation or spill of CHS; (2) Provide a copy of the manifest supplied by the waste generator to the operator of the facility; (3) Demonstrate and comply with Department of Transportation regulations for vehicles and containers, COMAR 11.16 and 49 CFR Parts 177, 178, 179, 393, and 396; (4) Allow the Director of the Waste Management Administration and his authorized representatives upon the presentation of credentials to enter and inspect vehicles, contents of containers and all records relating to the transportation of CHS; (5) Transport CHS from a source within the State or to a facility in the State only in certified vehicles by a certified driver; (6) Report periodically, on a form prescribed by the program, the source, disposal destination, volume and nature of the CHS transported; and (7) Pay a yearly fee for certification of $50.00 per vehicle used for hauling CHS.

I verify that the above referenced information is correct and completed to the best of my knowledge. Additionally, I will notify the State within 30 days of any changes in the information contained within this application.

NAME Rodney G. Parsons TITLE Vice-President - IC&S Division

SIGNATURE Rodney G. Parsons DATE Jan 17, 1983

THE COMPLETED APPLICATION FOR CERTIFICATION AS A CHS HAULER SHALL BE RETURNED TO THE PROGRAM ACCOMPANIED BY ALL NECESSARY VEHICLE CERTIFICATION FORMS. THE FEE FOR VEHICLE CERTIFICATION IS $50.00 PER YEAR PER VEHICLE USED TO TRANSPORT CHS. ANY CHECK OR MONEY ORDER SHALL BE MADE PAYABLE TO THE WASTE MANAGEMENT ADMINISTRATION. PLEASE RETURN ALL THE NECESSARY FORMS AND FEES TO:

OFFICE OF ENVIRONMENTAL PROGRAMS
HAZARDOUS WASTE DIVISION
201 WEST PRESTON STREET
BALTIMORE, MARYLAND 21201

sml
Revised:12/20/82

842600544

State of Maryland

OFFICE OF ENVIRONMENTAL PROGRAMS

DEPARTMENT OF HEALTH AND MENTAL HYGIENE

201 WEST PRESTON STREET • BALTIMORE, MARYLAND 21201 • Area Code 301 • 383-5734

Harry Hughes, Governor — Charles R. Buck, Jr., Sc.D. Secretary

APPLICATION FOR VEHICLE CERTIFICATION

(please print or type - attach additional pages if necessary)

1. Name of Applicant Ashland Chemical Company

2. Mailing Address of Applicant 221 Foundry Street, Newark, New Jersey 07105

3. Maryland CHS Hauler Certificate Number HWH - 82A-1480
(If pending, state date of application)

4. History of Vehicle (Power Unit)

Owner (Title) Ashland Chemical Co. Is this truck leased or rented? No

Make Mack
Model R685ST
Year 1981
Serial No. R685ST-60686

List all States of License(s) Issued and Tag No.(s) NJ - XWW67E

5. Check the Type(s) of Waste which will be carried by the vehicle:

Bulk Solid ____ Containerized X
Bulk Liquid ____ Other (Specify) ____
Sludge ____

6. Check the Hazard Group(s) (As defined in 49 CFR Part 173) which will be carried by the vehicle:

Flammable X Low-Level Radioactive ____
Corrosive X Oxidizer ____
Poison X Other (Specify) ____

7. Type of Vehicle

a. Does this vehicle have a permanently affixed container section? No

If you answered yes, complete below. Otherwise proceed to No. 8.

b. Check the type of vehicle: Tank Truck ____
Dump Truck ____
Vacuum Truck ____
Other (Specify) ____

c. What is the applicable DOT classification number? ____
(49 CFR Part 179)

d. What is the total container capacity (gal., lbs., or kg)? ____

e. How many compartments? ____

f. Does this vehicle meet all the applicable requirements and specifications as stated in COMAR 11.16 and 49 CFR Parts 179 and 393? Yes

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8. a. If the cargo carrying unit is not permanently affixed to the power train, check the type of cargo carrying unit(s) that may be used:

Flat Bed		Box Trailer	X
Roll Off Dumpster		Other (Specify)	
Box Van			

b. Identify the type(s) of containers that will be used to transport CHS as defined by 49 CFR Parts 177, 178. 55 gallon steel drums or 55 gallon plastic drums (DELDRUMS)

c. Do these containers meet the applicable specifications of 49 CFR Parts 177, 178? Yes

9. a. Does this vehicle comply with the standards for safe operation as specified in 49 CFR Part 393 and COMAR 11.16.01? Yes

b. Does this vehicle contain the safety equipment as required by 49 CFR Part 393 and COMAR 11.16.01? Yes

(List Equipment): Fire extinguisher, spare fuses, tire chains (when weather requires), warning devices

As a condition for issuance of this certification, I agree to comply with the provisions of the Health Environmental Article 7-7249 thru 7-252 Annotated Code of Maryland; COMAR 10.51 and 11.16; 49 CFR Parts 173, 177, 178, 179, 393 and 396. I verify that the above information is correct and complete to the best of my knowledge. Additionally, I will notify the State within 30 days of any changes in the information contained within the application.

NAME Rodney G. Parsons TITLE Vice-President - IC&S Division

SIGNATURE Rodney G. Parsons DATE Jan 17, 1983

THE FEE FOR VEHICLE CERTIFICATION IS $50.00 PER YEAR PER VEHICLE USED TO TRANSPORT CHS. ANY CHECK OR MONEY ORDER SHALL BE MADE PAYABLE TO THE WASTE MANAGEMENT ADMINISTRATION. PLEASE RETURN ALL THE NECESSARY FORMS AND FEES TO:

OFFICE OF ENVIRONMENTAL PROGRAMS
HAZARDOUS WASTE DIVISION
201 WEST PRESTON STREET
BALTIMORE, MARYLAND 21201

sml
Revised:12/20/82

842600546

State of Maryland

OFFICE OF ENVIRONMENTAL PROGRAMS

DEPARTMENT OF HEALTH AND MENTAL HYGIENE

201 WEST PRESTON STREET • BALTIMORE, MARYLAND 21201 • Area Code 301 • 383-5734

Harry Hughes, Governor — Charles R. Buck, Jr., Sc.D. Secretary

APPLICATION FOR VEHICLE CERTIFICATION

(please print or type - attach additional pages if necessary)

1. Name of Applicant Ashland Chemical Company

2. Mailing Address of Applicant 221 Foundry Street, Newark, New Jersey 07105

3. Maryland CHS Hauler Certificate Number HWH-82A-1481
(If pending, state date of application)

4. History of Vehicle (Power Unit)

Owner (Title) Ashland Chemical Co. Is this truck leased or rented? No

Make Mack
Model R685ST
Year 1980
Serial No. 2N161Y2BA083675

List all States of License(s) Issued and Tag No.(s) NJ-XUS80V

5. Check the Type(s) of Waste which will be carried by the vehicle:

Bulk Solid ____ Containerized X
Bulk Liquid ____ Other (Specify) ____
Sludge ____

6. Check the Hazard Group(s) (As defined in 49 CFR Part 173) which will be carried by the vehicle:

Flammable X Low-Level Radioactive ____
Corrosive X Oxidizer ____
Poison X Other (Specify) ____

7. Type of Vehicle

a. Does this vehicle have a permanently affixed container section? No

If you answered yes, complete below. Otherwise proceed to No. 8.

b. Check the type of vehicle: Tank Truck ____
Dump Truck ____
Vacuum Truck ____
Other (Specify) ____

c. What is the applicable DOT classification number? ____
(49 CFR Part 179)

d. What is the total container capacity (gal., lbs., or kg)? ____

e. How many compartments? ____

f. Does this vehicle meet all the applicable requirements and specifications as stated in COMAR 11.16 and 49 CFR Parts 179 and 393? ____

842600547

8. a. If the cargo carrying unit is not permanently affixed to the power train, check the type of cargo carrying unit(s) that may be used:

Flat Bed		Box Trailer	X
Roll Off Dumpster		Other (Specify)	
Box Van			

b. Identify the type(s) of containers that will be used to transport CHS as defined by 49 CFR Parts 177, 178. 55 gallon steel drums and plastic 55 gallon drums (Deldrums)

c. Do these containers meet the applicable specifications of 49 CFR Parts 177, 178? Yes

9. a. Does this vehicle comply with the standards for safe operation as specified in 49 CFR Part 393 and COMAR 11.16.01? Yes

b. Does this vehicle contain the safety equipment as required by 49 CFR Part 393 and COMAR 11.16.01? Yes

(List Equipment): Fire extinguishers, spare fuses, tire chains (when weather requires), warning devices

As a condition for issuance of this certification, I agree to comply with the provisions of the Health Environmental Article 7-7249 thru 7-252 Annotated Code of Maryland; COMAR 10.51 and 11.16; 49 CFR Parts 173, 177, 178, 179, 393 and 396. I verify that the above information is correct and complete to the best of my knowledge. Additionally, I will notify the State within 30 days of any changes in the information contained within the application.

NAME Rodney G. Parsons TITLE Vice-President - IC&S Division

SIGNATURE Rodney G. Parsons DATE Jan 14, 1983

THE FEE FOR VEHICLE CERTIFICATION IS $50.00 PER YEAR PER VEHICLE USED TO TRANSPORT CHS. ANY CHECK OR MONEY ORDER SHALL BE MADE PAYABLE TO THE WASTE MANAGEMENT ADMINISTRATION. PLEASE RETURN ALL THE NECESSARY FORMS AND FEES TO:

OFFICE OF ENVIRONMENTAL PROGRAMS
HAZARDOUS WASTE DIVISION
201 WEST PRESTON STREET
BALTIMORE, MARYLAND 21201

sml
Revised:12/20/82

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID AND HAZARDOUS WASTE

TRANSPORTER FORM
PART - I

50 WOLF ROAD
ALBANY, NEW YORK 12233

HAZARDOUS WASTE DISPOSAL QUESTIONNAIRE

PLEASE COMPLETE AND RETURN TO THE ABOVE ADDRESS, ATTENTION: RTK PROCESSING UNIT, ROOM 525

COMPANY NAME		ICS CODE EPA ID NUMBER	
COMPANY MAILING ADDRESS	ASHLAND CHEMICAL COMP T0J02307	STATE	ZIP CODE
PLANT NAME (if different)	221 FOUNDRY STREET	ITACT NAME	TELEPHONE
PLANT ADDRESS (if different) STREET	NEWARK NJ 07105 CITY	STATE	ZIP CODE
PRINCIPAL BUSINESS OF PLANT			

PLEASE ANSWER QUESTIONS 1 THRU 5

1) SINCE JANUARY 1, 1952 THRU DECEMBER 31, 1981, HAVE YOU OR ANY PREVIOUS OWNERS/OPERATORS OF THIS COMPANY TRANSPORTED ANY HAZARDOUS WASTE? (SEE INSTRUCTIONS) YES ____ NO X

Ashland Chemical has not, to the best of our knowledge, transported hazardous waste in the state of New York during this period.

IF ANY HAZARDOUS WASTE HAS BEEN TRANSPORTED PLEASE COMPLETE TRANSPORTER FORM PART II

2) HAS THE COMPANY LISTED ABOVE CHANGED ITS NAME OR IDENTIFICATION BECAUSE THERE WAS A CHANGE IN OWNERSHIP, CORPORATE NAME OR OPERATOR NAME, ETC. IF YES, LIST THE NAMES BY WHICH THE COMPANY HAS BEEN IDENTIFIED SINCE JANUARY 1, 1952 TO THE PRESENT. INCLUDE NAMES AND ADDRESSES OF PREVIOUS OWNERS /OPERATORS. YES X NO ____

COMPANY NAME AND ADDRESS	OWNER/OPERATOR NAME AND ADDRESS	DATES
Chemical Solvents Company 221 Foundry Street Newark, NJ	Chemical Solvents Co. is presently no longer in business.	

3) DID YOUR COMPANY TRANSPORT ANY HAZARDOUS WASTE BEFORE 1952? YES ____ NO X

Ashland Chemical was not in existence before 1952.

DESCRIBE THE DOCUMENTS FROM WHICH DATA IN PART II WAS OBTAINED (SEE INSTRUCTIONS).

DOCUMENT DESCRIPTION	DATES
There are no internal reports or studies. This information was obtained from an employee with 29 years' experience.	

I HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT INFORMATION SUPPLIED IS TRUE AND COMPLETE. FALSE STATEMENTS SUBMITTED ON THIS DOCUMENT ARE PUNISHABLE PURSUANT TO SECTION 210.45 OF THE PENAL LAW.

RODNEY G. PARSONS	V.P. + GEN. MGR ICTS	8/19/86
NAME OF OWNER/OPERATOR, PARTNER OFFICER OR AUTHORIZED REPRESENTATIVE	TITLE	DATE

SIGNATURE _____ BUSINESS PHONE _____

842600548

NAME	TRANSPORTER ID
ADDRESS	
CITY	STATE / ZIP

TRANSPORTER FORM

PART-II

T

DATE _____

1. HAZARDOUS WASTE DISPOSAL SITE (SEE INSTRUCTIONS)	2. NAME OF FIRM-COMPANY THAT PRODUCED INDUSTRIAL WASTE (SEE INSTRUCTIONS)	3. DATES OF SHIPMENT (MONTH) (YEAR)	4. DESCRIPTION OF HAZARDOUS WASTES DEPOSITED AT THIS LOCATION (SEE INSTRUCTIONS)	5. EPA WASTE CODE	6. WASTE DISPOSED OF QUANTITY OF WASTE (TONS)	FORM		
						LIQUID	SOLID	DRUMS

84260549

for U Henderson Engineering Dept JUL 27 1987 Newark-NJ LCIA

Let's protect our earth

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF SOLID WASTE MANAGEMENT
CN 414, Trenton, N.J. 08625

Michael F. DeBonis
Acting Director

JUL 07 1987

DEAR HAZARDOUS WASTE HAULER:

Pursuant to the requirements of the N.J.A.C. 7:26-7.5(h)5i an annual report must be submitted to the Department by every hazardous waste hauler. Attached you will find the appropriate form.

Side A - All waste material that you transported to, from or within NJ using a hazardous waste manifest should be entered on this side. Indicate the total amount and unit of measurement for each type. No further detail is necessary.

Side B - All waste material transported to, from or within NJ that did not require the use of a hazardous waste manifest should be listed. In addition to the type and quantity of material, information showing the origin and destination must be provided.

Please read the instructions for each side carefully. Be sure the completed form is signed by a responsible official. Please return by July 31, 1987.

Renewal forms will be mailed under separate cover in the near future.

If you have any questions, feel free to call the Bureau of Registration and Permits Administration office at (609) 292-5196.

Very truly yours,

Robert Confer
Acting Assistant Chief
Bureau of Registration
and Permits Administration

RC:g
Enclosure

Sent via Federal Express 07/21/87

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/M-006

NEW JERSEY DEPARTMENT OF E RONMENTAL PROTECTION
DIVISION OF HAZARDOUS ASTE MANAGEMENT

ANNUAL OPERATION STATEMENT

SIDE B – WASTE TRANSPORTED THAT DID NOT REQUIRE MANIFEST: FOR CALENDAR YEAR JANUARY 1 TO DECEMBER 31, 1986.

ISTRUCTIONS: 1) *Specify the waste type by the 2-digit codes as shown at the bottom of form.*
2) *Provide the total quantity transported with appropriate units of measurement.*
3) *Specify the municipality and county from which the material was received along with the municipality and facility name to which it was taken.*

RANSPORTER COMPANY NAME _____ EPA ID NO. _____

WASTE TYPE	QUANTITY	UNITS	ORIGINATING MUNICIPALITY	ORIGINATING COUNTY/STATE	DISPOSAL MUNICIPALITY OR CITY/STATE	DISPOSAL SITE NAME	FOR OFFICE USE ONLY

842600551

VITS: *G - Gallons* *P - Pounds* *CY - Cubic Yards* *T - Tons* *Specify Others*

ASTE TYPES:
10. Municipal (Household, Commercial & Industrial)
12. Dry Sewage Sludge
13. Bulky Waste (Includes Construction & Demolition)
23. Vegetative Waste
25. Animal & Food Processing Wastes
27. Dry Industrial
72. Bulk Liquids & Semi Liquids
73. Septic Tank Clean Out Waste
74. Liquid Sewage Sludge

Form HWM-006
5/87

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF HAZARDOUS WASTE MANAGEMENT

ANNUAL OPERATION STATEMENT

SIDE A – HAZARDOUS WASTE TRANSPORTED AND MANIFESTED: FOR THE CALENDAR YEAR JANUARY 1 TO DECEMBER 31, 1986.

INSTRUCTIONS: *1) List waste types transported using standard classifications defined in N.J.A.C. 7:26-8.*
2) Indicate the total quantity transported to, from or within N.J. for the year.
3) Indicate the appropriate units of measurement as shown at bottom of form.

TRANSPORTER COMPANY NAME ASHLAND CHEMICAL COMPANY EPA ID NO. NJD-060803905

WASTE TYPE	QUANTITY	UNITS
FLAMMABLE LIQUID NOS	64,376	G
RESIN SOLUTION FLAMMABLE LIQUID NOS	5,885	P
WASTE OILS	77,960	P
HAZARDOUS WASTE SOLID NOS-ORM-E	96,958	P
HAZARDOUS WASTE SOLIDS NOS ORM-E	495	G
HAZARDOUS WASTE LIQUID NOS ORM-E	30,600	P
CORROSIVE MATERIAL UN1823	980	P
CORROSIVE MATERIAL UN1759	10,850	P
WASTE OIL NOS	110	G

WASTE TYPE	QUANTITY	UNITS
SOLVENT NOS FLAMMABLE LIQUID NA 1993	400	P
FLAMMABLE SOLIDS NOS UN 1325	4950	P
FLAMMABLE LIQUID NOS UN 1998	5400	P
WASTE OIL #5 COMBUSTIBLE UN 1270	1375	G
COMBUSTIBLE LIQUID NOS NA 1993	1032	P
FLAMMABLE LIQUID NOS UN 1993	29500	P

UNITS: G - Gallons P - Pounds CY - Cubic Yards T - Tons Specify Others

This is to certify that the information contained in and attached to this report is true, correct and complete to the best of my knowledge.

T A GOODWIN
Print or Type Name of Responsible Official

DISTRICT MANAGER
Title

T A Goodwin
Signature of Responsible Official

7/21/87
Date Signed

842600552

842600553

28 OF 50

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FEDERAL EXPRESS

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COMPLETE PURPLE AREAS. SEE BACK OF AIRBILL FOR MORE INSTRUCTIONS.
QUESTIONS? CALL 800-238-5355 TOLL FREE.

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DATE 07/21/87

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AIRBILL NUMBER 4151503370

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0751

1 From (Your Name): T. A. GOODWIN

Your Phone Number (Very Important): (201) 287-3344

Company: ASHLAND CHEMICAL

Department/Floor No.:

Street Address: 2025 LINCOLN HWY STE 232

City: EDISON State: NJ

ZIP Required For Correct Invoicing: 0 8 8 1 7

2 To (Recipient's Name): MR. ROBERT CONFER

Recipient's Phone Number (Very Important): (609) 292-5196

Company: DEPARTMENT OF ENVIRONMENTAL PROTECTION

Department/Floor No.:

Exact Street Address (Use of P.O. Boxes or P.O. + Zip Codes Will Delay Delivery And Result In Extra Charges): 401 East State Street

City: Trenton, State: NJ

ZIP Street Address Zip Required: 0 8 6 2 5

3 YOUR BILLING REFERENCE INFORMATION (FIRST 24 CHARACTERS WILL APPEAR ON INVOICE.)

PAYMENT ☒ Bill Sender ☐ Bill Recipient's FedEx Acct. No. Fill in Account Number below ☐ Bill 3rd Party FedEx Acct. No. Fill in Account Number below ☐ Bill Credit Card Fill in Credit Card Number below ☐ Cash

H HOLD FOR PICK-UP AT THIS FEDERAL EXPRESS LOCATION: Street Address (See Service Guide or Call 800-238-5355)

City State

ZIP • Zip Code of Street Address Required

Federal Express Use

Base Charges

Declared Value Charge

Origin Agent Charge

Other

Total Charges

4 SERVICES CHECK ONLY ONE BOX

1 ☐ PRIORITY 1 Overnight Delivery Using Your Packaging

6 ☒ OVERNIGHT LETTER* (Our Packaging) 9½" x 12½"

OVERNIGHT DELIVERY USING OUR PACKAGING

2 ☐ Courier-Pak Overnight Envelope* 12" x 15½"

3 ☐ Overnight Box 12¾" x 17½" x 3" A ☐

4 ☐ Overnight Tube 38" x 6" x 6" B ☐

*Declared Value Limit $100.

STANDARD AIR

5 ☐ Delivery not later than second business day

SERVICE COMMITMENT

PRIORITY 1 - Delivery is scheduled early next business morning in most locations. It may take two or more business days if the destination is outside our primary service areas.

STANDARD AIR - Delivery is generally next business day or not later than second business day. It may take three or more business days if the destination is outside our primary service areas.

DELIVERY AND SPECIAL HANDLING CHECK SERVICES REQUIRED

1 ☐ HOLD FOR PICK-UP (Fill in Section H at right)

2 ☒ DELIVER WEEKDAY

3 ☐ DELIVER SATURDAY (Extra charge)

4 ☐ DANGEROUS GOODS (P-1 and Standard Air Packages only. Extra charge)

5 ☐ CONSTANT SURVEILLANCE SERVICE (CSS) (Extra charge) (Do Not Complete Section 5)

6 ☐ DRY ICE ____ Lbs.

7 ☐ OTHER SPECIAL SERVICE ____

8 ☐

9 ☐ SATURDAY PICK-UP (Extra charge)

10 ☐

PACKAGES	WEIGHT	YOUR DECLARED VALUE (See right)	OVER SIZE
	LBS		
	LBS		
	LBS		
	LBS		
Total	Total	Total	

Received At
1 ☐ Regular Stop
2 ☐ On-Call Stop
3 ☐ Drop Box 4 ☐ B.S.C. 5 ☐ Station

Federal Express Corp. Employee No.

5 Sender authorizes Federal Express to deliver this shipment without obtaining a delivery signature and shall indemnify and hold harmless Federal Express from any claims resulting therefrom.

Release

Signature

Date/Time For Federal Express Use

YOUR DECLARED VALUE

DAMAGE OR LOSS

We are liable for no more than $100 per package in the event of physical loss or damage, unless you fill in a higher Declared Value to the left and document higher actual loss in the event of a claim. We charge 30¢ for each additional $100 of declared value up to the maximum shown in our Service Guide. Declared value restrictions are shown on the back of the Sender's Copy of this airbill. We make no expressed or implied warranties.

DELAY

There is always a risk of late delivery or non-delivery. In the event of a late delivery Federal Express will, at your request and with some limitations, refund all transportation charges paid. See back of Sender's Copy of this airbill for further information.

CONSEQUENTIAL DAMAGES

We will not be responsible or liable for any loss or damage resulting from delay, non-delivery or damage to a package, except as noted above. This includes loss of sales, income, interest, profits, attorney fees and other costs, but is not limited to these items. Such damages are called "consequential damages."

DO NOT SHIP CASH OR CURRENCY

ORIGIN COPY

PART #106001
FEC-S-751-1000
REVISION DATE 10/86
PRINTED U.S.A. WCSE

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
HAZARDOUS WASTE GENERATOR ANNUAL REPORT 1987
- CERTIFICATION FORM -

I. EPA ID Number: NJD066230905

II. Generator Name: Ashland Chemical Co.

III. Contact Person: TA Goodwin

IV. Phone Number: 201-259-3394

V. Certification:

I certify that the information given in this annual report is true, accurate and complete.

TA Goodwin		8/3/90
(Print or type name)	(Signature)	(Date)

842600554

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
HAZARDOUS WASTE GENERATOR ANNUAL REPORT 1987
- REPORT FORM - DIRECTIONS -

- Review your company's manifests for the calendar year 1987
- Sort the manifests according to transporter and designated facility (TSDF) combinations (Item numbers 5 and 9 on the manifest)
- Complete a separate report for each transporter/TSD Facility combination
- If you need additional reporting forms, please photocopy the original form that we have supplied.

ITEM 1: Enter the name of the generator

ITEM 2: Enter the generator's US EPA ID Number as it appeared in Item #1 on the manifest(s)

ITEM 3: Enter the address of the site where the waste was generated

ITEM 4: Enter the name of the transporter as it appeared in item #5 on the manifest(s)

ITEM 5: Enter the transporter's US EPA ID Number as it appeared in item #6 on the manifest(s)

ITEM 6: Enter the name of the designated TSD Facility as it appeared in item #9 on the manifests(s)

ITEM 7: Enter the TSD Facility's US EPA ID Number as it appeared in item #10 on the manifest(s)

ITEM 8: Enter the TSD Facility's address as it appeared in item #9 on the manifest(s)

ITEM 9:
A) Enter the EPA or NJ Waste Number (Example D001, X-726).
B) Enter the USDOT Waste Description as it appeared on the manifest(s).
C) Enter the USDOT Hazard Class as it appeared on the manifest(s).
D) Enter the total quantity manifested during the report year for the indicated waste number and corresponding USDOT Waste Description/Hazard Class. Do not list the quantity for each individual manifest.
E) Enter the appropriate abbreviation from Table II (below) for the unit of measure used in determining the total quantity of waste indicated.

TABLE II
UNITS OF MEASURE

G - Gallons (liquids only)
P - Pounds
T - Tons (2,000 lbs.)
Y - Cubic Yards
L - Liters (liquids only)
K - Kilograms
M - Metric Tons (1,000 kg)
N - Cubic Meters

842600555

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
HAZARDOUS WASTE GENERATOR ANNUAL REPORT 1987
- REPORT FORM -

1. Generator Name: Ashland Chemical Co. 2. EPA ID No.: NJD060803905

3. Site Address: 221 Foundry Street Newark, N.J. 07105

4. Transporter Name: Marisol Inc. 5. EPA ID No.: NJDEP52809

6. TSD Facility Name: Marisol Inc. 7. EPA ID No.: NJD002454544

8. TSD Address: 125 Factory Lane, Middlesex, N.J. 08946

9. A.) Waste Number	B.) Waste Description	C.) DOT Haz Class	D.) Total Quantity	E.) Units
F003	RQ Waste	Flammable	6800	G
F005	Flammable Liquid NOS	Luquid UN 1993		

NOTE: For each combination of transporter and TSD facility, list the total quantity manifested for each waste type.

842600556

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
HAZARDOUS WASTE GENERATOR ANNUAL REPORT 1987
- REPORT FORM -

1. Generator Name: Ashland Chemical Co. 2. EPA ID No.: NJD060803905

3. Site Address: 221 Foundry Street Newark, N.J. 07105

4. Transporter Name: Marisol Inc. 5. EPA ID No.: NJDEP52809

6. TSD Facility Name: Marisol Inc. 7. EPA ID No.: NJD002454544

8. TSD Address: 125 Factory Lane, Middlesex, N.J. 08946

9. A.) Waste Number	B.) Waste Description	C.) DOT Haz Class	D.) Total Quantity	E.) Units
F003 F005	RQ Waste Flammable Liquid NOS	Flammable Luquid UN 1993	6800	G

NOTE: For each combination of transporter and TSD facility, list the total quantity manifested for each waste type.

842600557

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
HAZARDOUS WASTE GENERATOR ANNUAL REPORT 1987
- REPORT FORM -

1. Generator Name: Ashland Chemical Co 2. EPA ID No.: NJD002165765

3. Site Address: 221 Foundry St. Newark NJ 07105

4. Transporter Name: Marisol Inc. 5. EPA ID No.: NJD052552009

6. TSD Facility Name: Marisol Inc 7. EPA ID No.: NJD002454354

8. TSD Address: 125 Factory Lane, Middlesex, NJ 08846

9.	A.) Waste Number	B.) Waste Description	C.) DOT Haz Class	D.) Total Quantity	E.) Units
	F003	RQ WASTE Flammable Liquid N.O.S. UN 1993	Flammable	6500	G
	F005				

NOTE: For each combination of transporter and TSD facility, list the total quantity manifested for each waste type.

842600558

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
HAZARDOUS WASTE GENERATOR ANNUAL REPORT 1987
- REPORT FORM -

1. Generator Name: Ashland Chemical Co. 2. EPA ID No.: NJD060803905

3. Site Address: 221 Foundry Street. Newark, N.J. 07105

4. Transporter Name: Chemical Waste Management 5. EPA ID No.: NJDEP510331

6. TSD Facility Name: Chemical Waste Management of New Jersey 7. EPA ID No.: NJD089216790

8. TSD Address: 100 Lister Ave. Newark, N.J. 07105

9. A.) Waste Number	B.) Waste Description	C.) DOT Haz Class	D.) Total Quantity	E.) Units
D001	Waste Flammable Liquid NOS	Flammable Liquid 1993	206	G

NOTE: For each combination of transporter and TSD facility, list the total quantity manifested for each waste type.

842600559

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
HAZARDOUS WASTE GENERATOR ANNUAL REPORT 1987
- REPORT FORM -

1. Generator Name: Ashland Chemical Co. 2. EPA ID No.: NJD060803905

3. Site Address: 221 Foundry Street. Newark, N.J. 07105

4. Transporter Name: Chemical Waste Management 5. EPA ID No.: NJDEP510331

6. TSD Facility Name: Chemical Waste Management of New Jersey 7. EPA ID No.: NJD089216790

8. TSD Address: 100 Lister Ave. Newark, N.J. 07105

9. A.) Waste Number	B.) Waste Description	C.) DOT Haz Class	D.) Total Quantity	E.) Units
D001	Waste Flammable Liquid NOS	Flammable Liquid 1993	206	G

NOTE: For each combination of transporter and TSD facility, list the total quantity manifested for each waste type.

842600560

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
HAZARDOUS WASTE GENERATOR ANNUAL REPORT 1987
- REPORT FORM -

1. Generator Name: Ashland Chemical Co 2. EPA ID No.: NJD002163705

3. Site Address: 221 Foundry St. Newark NJ 07105 NJDEP 51033!

4. Transporter Name: Management 5. EPA ID No.: [illegible]

6. TSD Facility Name: [illegible] 7. EPA ID No.: NJD[illegible]

8. TSD Address: 100 Lister Ave. Newark NJ 07105

9.	A.) Waste Number	B.) Waste Description	C.) DOT Haz Class	D.) Total Quantity	E.) Units
	D001	Waste Flammable Liquid NOS	Flammable Liquid 1993	206	G
	N/A 1993 (Alkyl Based Resin)	Waste Flammable Liquid NOS	Combustible Liquid NA 1993	320	G
	N/A 9179 (Resin)	Hazardous Waste Liquid NOS	Other - E NA 9179	55	G

NOTE: For each combination of transporter and TSD facility, list the total quantity manifested for each waste type.

842600561

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
HAZARDOUS WASTE GENERATOR ANNUAL REPORT 1987
- WASTE SUMMARY FORM -

Generator Name: Ashland Chemical Company

EPA ID No.: NJD060803905

DIRECTIONS:

Please indicate below the total quantity of hazardous waste manifested during the 1987 report year for each unit of measure. Enter the units of measure as they appeared on the manifest(s). Do not convert one form of unit of measure to another.

7006 G - Gallons (liquids only)

_____ P - Pounds

_____ T - Tons (2,000 lbs.)

_____ Y - Cubic Yards

_____ L - Liters (liquids only)

_____ K - Kilograms

_____ M - Metric Tons (1,000 kg)

_____ N - Cubic Meters

*Enter zero (0) for units of measure which were not utilized.

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NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
HAZARDOUS WASTE GENERATOR ANNUAL REPORT 1987
- WASTE SUMMARY FORM -

Generator Name: Ashland Chemical Co.

EPA ID No.: NJD060503405

DIRECTIONS:

Please indicate below the total quantity of hazardous waste manifested during the 1987 report year for each unit of measure. Enter the units of measure as they appeared on the manifest(s). Do not convert one form of unit of measure to another.

7006 G - Gallons (liquids only)

_____ P - Pounds

_____ T - Tons (2,000 lbs.)

_____ Y - Cubic Yards

_____ L - Liters (liquids only)

_____ K - Kilograms

_____ M - Metric Tons (1,000 kg)

_____ N - Cubic Meters

*Enter zero (0) for units of measure which were not utilized.

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ASHLAND INC.

SECOND RESTATED ARTICLES OF INCORPORATION

(INCLUDING ALL AMENDMENTS THERETO)

As Effective January 27, 1995

842600564

ORIGINAL COPY
FILED
SECRETARY OF STATE OF KENTUCKY
FRANKFORT, KENTUCKY
JAN 29 1987
12:45 pm

SECOND RESTATED ARTICLES OF INCORPORATION
OF
ASHLAND OIL, INC.

Pursuant to Section 271A.320 of the Kentucky Business Corporation Act, Ashland Oil, Inc., pursuant to a resolution duly adopted by its Board of Directors, hereby adopts the following Second Restated Articles of Incorporation (hereinafter called the "Articles of Incorporation"):

ARTICLE I

The name of the corporation is Ashland Oil, Inc. (hereinafter called the "Company" or the "Corporation").

ARTICLE II

The purpose for which the Company is organized is the transaction of any or all lawful businesses for which corporations may be organized under the Kentucky Business Corporation Act, or any act amendatory thereof, supplemental thereto or substituted therefor (hereinafter called the "Act"), and to do all things necessary, convenient, proper or desirable in connection with or incident to any of the Company's businesses.

ARTICLE III

A. The Company shall have all the powers conferred upon a corporation organized under the Act and shall have all powers necessary, convenient or desirable in order to fulfill and further the purpose of the Company.

B. The Company shall have the power to purchase shares of the stock of the Company to the extent of unreserved and unrestricted capital and earned surplus of the Company and to any greater extent permitted by the Act.

C. The Board of Directors of the Company may distribute to the shareholders of the Company a portion of the Company's assets, in cash or property, out of capital surplus of the Company and from any other source permitted by the Act.

ARTICLE IV

A. The aggregate number of shares which the Company is authorized to issue is 30,000,000 shares of Cumulative Preferred Stock, without par value (hereinafter called the "Preferred Stock"), and 150,000,000 shares of Common Stock, par value $1.00 per share (hereinafter called the "Common Stock").

B. Preferred Stock

(1) To the extent permitted by the Act, the Board of Directors is authorized, by resolution, to cause the Preferred Stock to be divided into and issued from time to time in one or more series and to fix and determine the designation and number of shares, and the relative rights and preferences of the shares, of each such series, and to change shares of one series that have been redeemed or reacquired into shares of another series.

(2) All shares of Preferred Stock shall rank equally and be identical in all respects except as to the relative rights and preferences of any series fixed and determined by the Board of Directors, which may vary to the extent permitted by the Act.

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(3) The Preferred Stock shall be preferred over the Common Stock as to payment of dividends. Before any dividends or distributions (other than dividends or distributions payable in Common Stock) on the Common Stock shall be declared and set apart for payment or paid, the holders of shares of each series of Preferred Stock shall be entitled to receive dividends (either in cash, shares of Common Stock or Preferred Stock, or otherwise) when, as and if declared by the Board of Directors, at the rate and on the date or dates fixed in the resolution adopted by the Board of Directors establishing such series, and no more. With respect to each series of Preferred Stock, the dividends on each share of such series shall be cumulative from the date of issue of such share unless some other date is fixed in the resolution adopted by the Board of Directors establishing such series. Accruals of dividends shall not bear interest.

(4) The Preferred Stock shall be preferred over the Common Stock as to assets so that the holders of each series of Preferred Stock shall be entitled to be paid, upon the voluntary or involuntary liquidation, dissolution or winding up of the Company and before any distribution is made to the holders of Common Stock, the amount fixed in the resolution adopted by the Board of Directors establishing such series, but in such case the holders of such series of Preferred Stock shall not be entitled to any other or further payment. If upon any such liquidation, dissolution or winding up of the Company its net assets shall be insufficient to permit the payment in full of the respective amounts to which the holders of all outstanding Preferred Stock are entitled, the entire remaining net assets of the Company shall be distributed among the holders of each series of Preferred Stock in amounts proportionate to the full amounts to which the holders of each such series are respectively so entitled. For purposes of this paragraph (4), the voluntary sale, lease, exchange or transfer of all or substantially all of the Company's property or assets to, or its consolidation or merger with, one or more corporations shall not be deemed to be a voluntary or involuntary liquidation, dissolution or winding up of the Company.

(5) All shares of any series of Preferred Stock shall be redeemable to the extent permitted by the Act and fixed in the resolution adopted by the Board of Directors establishing such series. All shares of any series of Preferred Stock shall be convertible into shares of Common Stock or into shares of any other series of Preferred Stock to the extent permitted by the Act and fixed in the resolution adopted by the Board of Directors establishing such series.

(6) Unless otherwise provided herein or by the Act, or unless otherwise provided in the resolution adopted by the Board of Directors establishing any series of Preferred Stock, the holders of shares of Preferred Stock shall be entitled to one vote for each share of Preferred Stock held by them on all matters properly presented to shareholders, the holders of Common Stock and the holders of all series of Preferred Stock voting together as one class.

(7) So long as any shares of Preferred Stock are outstanding, the Company shall not:

(a) Redeem, purchase or otherwise acquire any shares of Common Stock if at the time of making such redemption, purchase or acquisition, the Company shall be in default with respect to any dividends accrued on, or any obligation to retire, shares of Preferred Stock.

(b) Without the affirmative vote or consent of the holders of at least 66⅔% of the number of shares of Preferred Stock at the time outstanding, voting or consenting (as the case may be) separately as a class without regard to series, given in person or by proxy, either in writing or by resolution adopted at a meeting called for the purpose, (i) create any class of stock ranking prior to the Preferred Stock as to dividends or upon liquidation or increase the authorized number of shares of any such class of stock or (ii) alter or change any of the provisions of these Articles of Incorporation so as adversely to affect the relative rights and preferences of the Preferred Stock or (iii) increase the authorized number of shares of Preferred Stock.

(c) Without the affirmative vote or consent of the holders of at least 66⅔% of the number of shares of any series of Preferred Stock at the time outstanding, voting or consenting (as the case may be) separately as a series, given in person or by proxy, either in writing or by resolution adopted at a meeting called for the purpose, alter or change any of the provisions of these Articles of Incorporation so as adversely to affect the relative rights and preferences of such series.

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C. Common Stock

(1) The holders of Common Stock of the Company shall be entitled to one vote for each share of Common Stock held by them on all matters properly presented to shareholders, except as otherwise provided herein or by the Act.

(2) Subject to the preferential rights of Preferred Stock set forth herein or in the resolution adopted by the Board of Directors establishing any series of Preferred Stock, such dividends (either in cash, shares of Common Stock or Preferred Stock, or otherwise) as may be determined by the Board of Directors may be declared and paid on the Common Stock from time to time in accordance with the Act.

D. No holder of shares of any class of stock of the Company shall have any preemptive right to subscribe to stock, obligations, warrants, subscription rights or other securities of the Company of any class, whether now or hereafter authorized.

ARTICLE V

The Company shall have perpetual existence.

ARTICLE VI

Subject to the restriction that the number of directors shall not be less than the number required by the laws of the Commonwealth of Kentucky, the number of directors may be fixed, from time to time, pursuant to the By-laws of the Company.

The members of the Board of Directors (other than those who may be elected by the holders of any class or series of capital stock of the Company having a preference over the Common Stock as to dividends or upon liquidation pursuant to the terms of these Articles of Incorporation or of such class or series of stock) shall be classified (so long as the Board of Directors shall consist of at least nine members pursuant to the By-laws), with respect to the time for which they severally hold office, into three classes, as nearly equal in number as possible, as shall be provided in the By-laws of the Company, one class to be originally elected for a term expiring at the annual meeting of the shareholders to be held in 1987, another class to be originally elected for a term expiring at the annual meeting of the shareholders to be held in 1988, and another class to be originally elected for a term expiring at the annual meeting of the shareholders to be held in 1989, with each class to hold office until the successors of such class are elected and qualified. At each annual meeting of the shareholders, the date of which shall be fixed by or pursuant to the By-laws of the Company, the successors of the class of directors whose term expires at that meeting shall be elected to hold office for a term expiring at the annual meeting of shareholders held in the third year following the year of their election.

Subject to any requirements of law and the rights of any class or series of capital stock of the Company having a preference over the Common Stock as to dividends or upon liquidation pursuant to the terms of these Articles of Incorporation or of such class or series of stock (and notwithstanding the fact that a lesser percentage may be specified by law, these Articles of Incorporation or the terms of such class or series), the affirmative vote of the holders of 80% or more of the voting power of the then outstanding voting stock of the Company, voting together as a single class, shall be required to remove any director without cause. For purposes of this Article VI, "cause" shall mean the willful and continuous failure of a director to substantially perform such director's duties to the Company, other than any such failure resulting from incapacity due to physical or mental illness, or the willful engaging by a director in gross misconduct materially and demonstrably injurious to the Company. As used in these Articles of Incorporation, "voting stock" shall mean shares of capital stock of the Company entitled to vote generally in an election of directors.

Subject to any requirements of law and the rights of any class or series of capital stock of the Company having a preference over the Common Stock as to dividends or upon liquidation pursuant to the terms of these Articles of Incorporation or of such class or series of stock, newly created directorships resulting from any

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increase in the number of directors may be filled by the Board of Directors, or as otherwise provided in the By-laws, and any vacancies on the Board of Directors resulting from death, resignation, removal or other cause shall only be filled by the affirmative vote of a majority of the remaining directors then in office, even though less than a quorum of the Board of Directors, or by a sole remaining director, or as otherwise provided in the By-laws. Any director elected in accordance with the preceding sentence shall hold office for the remainder of the full term of the class of directors in which the new directorship was created or the vacancy occurred and until such director's successor shall have been elected and qualified.

ARTICLE VII

In furtherance and not in limitation of the powers conferred upon it by law, the Board of Directors is expressly authorized to:

A. adopt any By-laws that the Board of Directors may deem necessary or desirable for the efficient conduct of the affairs of the Company, including, but not limited to, provisions governing the conduct of, and the matters which may properly be brought before, annual or special meetings of the shareholders and provisions specifying the manner and extent to which prior notice shall be given of the submission of proposals to be considered at any such meeting or of nominations for election of directors to be held at any such meeting; and

B. repeal, alter or amend the By-laws.

In addition to any requirements of law and any other provisions of these Articles of Incorporation or the terms of any class or series of capital stock having a preference over the Common Stock as to dividends or upon liquidation (and notwithstanding the fact that a lesser percentage may be specified by law, these Articles of Incorporation or the terms of such class or series), the affirmative vote of the holders of 80% or more of the voting power of the then outstanding voting stock of the Company, voting together as a single class, shall be required to amend, alter or repeal any provision of the By-laws.

ARTICLE VIII

A. A higher than majority vote of shareholders for certain Business Combinations shall be required as follows:

(1) In addition to any affirmative vote otherwise required by law or these Articles of Incorporation or the terms of any class or series of capital stock of the Company having a preference over the Common Stock as to dividends or upon liquidation (and notwithstanding the fact that a lesser percentage may be specified by law, these Articles of Incorporation or the terms of such class or series) and except as otherwise expressly provided in Section B of this Article VIII:

(a) any merger or consolidation of the Company or any Subsidiary with an Interested Shareholder or with any other corporation, whether or not itself an Interested Shareholder, which is, or after such merger or consolidation would be, an Affiliate of an Interested Shareholder who was an Interested Shareholder prior to the transaction;

(b) any sale, lease, transfer, or other disposition, other than in the ordinary course of business, in one transaction or a series of transactions in any twelve-month period, to any Interested Shareholder or any Affiliate of an Interested Shareholder, other than the Company or any Subsidiary, of any assets of the Company or any Subsidiary having, measured at the time the transaction or transactions are approved by the Board of Directors, an aggregate book value as of the end of the Company's most recently ended fiscal quarter of 5% or more of the total market value of the outstanding stock of the Company or of its net worth as of the end of its most recently ended fiscal quarter;

(c) the issuance or transfer by the Company or any Subsidiary, in one transaction or a series of transactions in any twelve-month period, of any equity securities of the Company or any Subsidiary which have an aggregate market value of 5% or more of the total market value of the outstanding stock

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of the Company, determined as of the end of the Company's most recently ended fiscal quarter prior to the first such issuance or transfer, to any Interested Shareholder or any Affiliate of any Interested Shareholder, other than the Company or any Subsidiary, except pursuant to the exercise of warrants or rights to purchase securities offered pro rata to all holders of the Company's voting stock or any other method affording substantially proportionate treatment to the holders of voting stock;

(d) the adoption of any plan or proposal for the liquidation or dissolution of the Company in which anything other than cash will be received by an Interested Shareholder or any Affiliate of an Interested Shareholder; or

(e) any reclassification of securities, including any reverse stock split; any recapitalization of the Company; any merger or consolidation of the Company with any Subsidiary; or any other transaction which has the effect, directly or indirectly, in one transaction or a series of transactions, of increasing by 5% or more the proportionate amount of the outstanding shares of any class of equity securities of the Company or any Subsidiary which is directly or indirectly beneficially owned by any Interested Shareholder or any Affiliate of any Interested Shareholder;

shall require the recommendation of the Board of Directors and the affirmative vote of the holders of at least (i) 80% of the voting power of the then outstanding voting stock of the Company, voting together as a single class, and (ii) two-thirds of the voting power of the then outstanding voting stock other than voting stock beneficially owned by the Interested Shareholder who is, or whose Affiliate is, a party to the Business Combination or by an Affiliate or Associate of such Interested Shareholder, voting together as a single class.

(2) The term "Business Combination" as used in this Article VIII shall mean any transaction which is referred to in any one or more of clauses (a) through (e) of paragraph (1) of Section A of this Article VIII.

B. The provisions of Section A of this Article VIII shall not be applicable to any Business Combination, and such Business Combination shall require only such affirmative vote (if any) as is required by law, any other provision of these Articles of Incorporation or the terms of any class or series of capital stock of the Company having a preference over the Common Stock as to dividends or upon liquidation, if all conditions specified in either of the following paragraphs (1) or (2) are met:

(1) The Business Combination shall have been approved by resolution by a majority of the Continuing Directors at a meeting of the Board of Directors at which a quorum consisting of at least a majority of the then Continuing Directors was present; or

(2) All the following five conditions have been met:

(a) The aggregate amount of the cash and the market value as of the Valuation Date of consideration other than cash to be received per share by holders of Common Stock in such Business Combination is at least equal to the highest of the following:

(i) the highest per share price, including any brokerage commissions, transfer taxes and soliciting dealers' fees, paid by the Interested Shareholder for any shares of Common Stock (a) within the two-year period immediately prior to the Announcement Date or (b) in the transaction in which it became an Interested Shareholder, whichever is higher;

(ii) the market value per share of Common Stock on the Announcement Date or on the Determination Date, whichever is higher; and

(iii) the price per share equal to the market value per share of Common Stock determined pursuant to clause (ii) immediately preceding, multiplied by the fraction resulting from (a) the highest per share price, including any brokerage commissions, transfer taxes and soliciting dealers' fees, paid by the Interested Shareholder for any shares of Common Stock acquired by it within the two-year period immediately prior to the Announcement Date, over (b) the market value per share of Common Stock on the first day in such two-year period on which the Interested Shareholder acquired any shares of Common Stock.

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(b) The aggregate amount of the cash and the market value as of the Valuation Date of consideration other than cash to be received per share by holders of shares of any class or series of outstanding stock other than Common Stock is at least equal to the highest of the following, whether or not the Interested Shareholder has previously acquired any shares of a particular class or series of stock:

(i) the highest per share price, including any brokerage commissions, transfer taxes and soliciting dealers' fees, paid by the Interested Shareholder for any shares of such class of stock acquired by it (a) within the two-year period immediately prior to the Announcement Date or (b) in the transaction in which it became an Interested Shareholder, whichever is higher;

(ii) the highest preferential amount per share to which the holders of shares of such class of stock are entitled in the event of any voluntary or involuntary liquidation, dissolution or winding up of the Company;

(iii) the market value per share of such class of stock on the Announcement Date or on the Determination Date, whichever is higher; and

(iv) the price per share equal to the market value per share of such class of stock determined pursuant to clause (iii) immediately preceding, multiplied by the fraction resulting from (a) the highest per share price, including any brokerage commissions, transfer taxes and soliciting dealers' fees, paid by the Interested Shareholder for any shares of any class of voting stock acquired by it within the two-year period immediately prior to the Announcement Date over (b) the market value per share of the same class of voting stock on the first day in such two-year period on which the Interested Shareholder acquired any shares or the same class of voting stock.

(c) In making any price calculation under paragraph (2) of this Section B, appropriate adjustments shall be made to reflect any reclassification or stock split (including any reverse stock split), stock dividend, recapitalization, reorganization or any similar transaction which has the effect of increasing or reducing the number of outstanding shares of the stock. The consideration to be received by holders of any class or series of outstanding stock is to be in cash or in the same form as the Interested Shareholder has previously paid for shares of the same class or series of stock. If the Interested Shareholder has paid for shares of any class of stock with varying forms of consideration, the form of consideration for such class of stock shall be either in cash or the form used to acquire the largest number of shares of such class or series of stock previously acquired by it.

(d) After the Interested Shareholder has become an Interested Shareholder and prior to the consummation of such Business Combination:

(i) there shall have been no failure to declare and pay at the regular date thereof any full periodic dividends, whether or not cumulative, on any outstanding Preferred Stock of the Company or other capital stock entitled to a preference over the Common Stock as to dividends or upon liquidation;

(ii) there shall have been no reduction in the annual rate of dividends paid on the Common Stock, except as necessary to reflect any subdivision of the Common Stock, and no failure to increase the annual rate of dividends as necessary to reflect any reclassification (including any reverse stock split), recapitalization, reorganization or other similar transaction which has the effect of reducing the number of outstanding shares of Common Stock; and

(iii) the Interested Shareholder did not become the beneficial owner of any additional shares of stock of the Company except as part of the transaction which resulted in such Interested Shareholder or by virtue of proportionate stock splits or stock dividends.

The provisions of clauses (i) and (ii) immediately preceding shall not apply if neither an Interested Shareholder nor any Affiliate or Associate of an Interested Shareholder voted as a director of the Company in a manner inconsistent with such clauses and the Interested Shareholder, within ten days after any act or failure to act inconsistent with such clauses, notifies the Board of Directors of the Company in writing that the Interested Shareholder disapproves thereof and requests in good faith that the Board of Directors rectify such act or failure to act.

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(e) After the Interested Shareholder has become an Interested Shareholder, the Interested Shareholder shall not have received the benefit, directly or indirectly, except proportionately as a shareholder, of any loans, advances, guarantees, pledges or other financial assistance provided by the Company or any Subsidiary, whether in anticipation of or in connection with such Business Combination or otherwise.

C. For purposes of this Article VIII:

(1) "Affiliate" or "Associate" shall have the respective meanings ascribed to such terms in Rule 12b-2 of the General Rules and Regulations under the Securities Exchange Act of 1934, as in effect on December 1, 1985 (the term "registrant" in such Rule 12b-2 meaning in this case the Company).

(2) "Announcement Date" means the first general public announcement of the proposal or intention to make a proposal of the Business Combination or its first communication generally to shareholders of the Company, whichever is earlier.

(3) "Beneficial owner" when used with respect to any voting stock, means a person who, individually or with any Affiliate or Associate has:

(i) the right to acquire voting stock, whether such right is exercisable immediately or only after the passage of time and whether or not such right is exercisable only after specified conditions are met pursuant to any agreement, arrangement, or understanding or upon the exercise of conversion rights, exchange rights, warrants or options, or otherwise;

(ii) the right to vote voting stock pursuant to any agreement, arrangement, or understanding; or

(iii) any agreement, arrangements, or understanding for the purpose of acquiring, holding, voting or disposing of voting stock with any other person who beneficially owns, or whose Affiliates or Associates beneficially own, directly or indirectly, such shares of voting stock.

(4) "Continuing Director" means any member of the Board of Directors who is not an Affiliate or Associate of an Interested Shareholder or any of its Affiliates, other than the Company or any Subsidiary, and who was a director of the Company prior to the time the Interested Shareholder became an Interested Shareholder, and any other member of the Board of Directors who is not an Affiliate or Associate of an Interested Director or any of its Affiliates, other than the Company or any Subsidiary, and was recommended or elected by a majority of the Continuing Directors at a meeting at which a quorum consisting of a majority of the Continuing Directors is present.

(5) "Determination Date" means the date on which an Interested Shareholder first became an Interested Shareholder.

(6) "Equity security" means:

(a) any stock or similar security, certificate of interest, or participation in any profit-sharing agreement, voting trust certificate, or certificate of deposit for the foregoing;

(b) any security convertible, with or without consideration, into an equity security, or any warrant or other security carrying any right to subscribe to or purchase an equity security; or

(c) any put, call, straddle, or other option, right or privilege of acquiring an equity security from or selling an equity security to another without being bound to do so.

(7) "Interested Shareholder" means any person, other than the Company or any Subsidiary, who:

(a) is the beneficial owner, directly or indirectly, of 10% or more of the voting power of the outstanding voting stock of the Company; or

(b) is an Affiliate of the Company and at any time within the two-year period immediately prior to the date in question was the beneficial owner, directly or indirectly, of 10% or more of the voting power of the then outstanding voting stock of the Company.

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For the purpose of determining whether a person is an Interested Shareholder, the number of shares of voting stock deemed to be outstanding shall include shares deemed owned by the person through application of paragraph (3) of this Section C but shall not include any other shares of voting stock which may be issuable pursuant to any agreement, arrangement, or understanding, or upon exercise of conversion rights, warrants or options, or otherwise. Furthermore, any such beneficial ownership or voting power arising solely out of a trustee or custodial relationship of any person in connection with a Company "employee benefit or stock plan" shall be excluded for purposes of determining whether or not any such person is an Interested Stockholder. For purposes hereof, the term "employee benefit or stock plan" of the Company shall mean any option, bonus, appreciation, profit sharing, retirement, incentive, thrift, employee stock ownership, dividend reinvestment, savings or similar plan of the Company.

(8) "Market value" means:

(a) in the case of stock, the highest closing sale price during the 30 calendar day period immediately preceding the date in question of a share of such stock on the Composite Tape for New York Stock Exchange listed stocks, or, if such stock is not quoted on such Composite Tape, on the New York Stock Exchange, or if such stock is not listed on such Exchange, on the principal United States securities exchange registered under the Securities Exchange Act of 1934 on which such stock is listed, or, if such stock is not listed on any such exchange, the highest closing bid quotation with respect to a share of such stock during the 30 calendar day period preceding the date in question on the National Association of Securities Dealers, Inc. Automated Quotations System or any system then in use, or if no such quotation is available, the fair market value on the date in question of a share of such stock as determined by a majority of the Continuing Directors at a meeting of the Board of Directors at which a quorum consisting of at least a majority of the then Continuing Directors is present; and

(b) in the case of property other than cash or stock, the fair market value of such property on the date in question as determined by a majority of the Continuing Directors at a meeting of the Board of Directors at which a quorum consisting of at least a majority of the then Continuing Directors is present.

(9) "Subsidiary" means any corporation of which voting stock having a majority of the votes entitled to be cast is owned, directly or indirectly, by the Company.

(10) "Valuation Date" means:

(a) for a Business Combination voted upon by shareholders, the later of the day prior to the date of the shareholders' vote or the date 20 business days prior to the consummation of the Business Combination; and

(b) for a Business Combination not voted upon by shareholders, the date of the consummation of the Business Combination.

(11) "Voting Stock" means shares of capital stock of the Company entitled to vote generally in an election of directors.

D. In addition to any requirements of law and any other provisions of these Articles of Incorporation or the terms of any class or series of capital stock of the Company entitled to a preference over the Common Stock as to dividends or upon liquidation (and notwithstanding the fact that a lesser percentage may be specified by law, these Articles of Incorporation or the terms of such class or series), the affirmative vote of

(1) the holders of at least 80% of the voting power of the then outstanding voting stock of the Company, voting together as a single class, and

(2) the holders of at least two-thirds of the voting power of the then outstanding voting stock of the Company other than the Interested Shareholder, voting together as a single class,

shall be required to amend, alter or repeal, or adopt any provision inconsistent with, this Article VIII.

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ARTICLE IX

In addition to any requirements of law and any other provisions of these Articles of Incorporation or the terms of any class or series of capital stock of the Company having a preference over the Common Stock as to dividends or upon liquidation (and notwithstanding the fact that a lesser percentage may be specified by law, these Articles of Incorporation or the terms of such class or series), the affirmative vote of the holders of 80% or more of the voting power of the then outstanding voting stock of the Company, voting together as a single class, shall be required to amend, alter or repeal, or adopt any provision inconsistent with, this Article IX or Article VI or VII of these Articles of Incorporation. Subject to the foregoing provisions of this Article IX and Section D of Article VIII, the Company reserves the right from time to time to amend, alter, change, add to or repeal any provision contained in these Articles of Incorporation in any manner now or hereafter prescribed by law and in these Articles of Incorporation, and all rights and powers at any time conferred upon shareholders, directors and officers of the Company by these Articles of Incorporation or any amendment thereof are subject to the provisions of this Article IX and Section D of Article VIII.

The foregoing Second Restated Articles of Incorporation correctly set forth without change the corresponding provisions sequentially renumbered of the Restated Articles of Incorporation as heretofore amended, and supersede the Restated Articles of Incorporation and all amendments thereto.

Dated: January 29, 1987.

ASHLAND OIL, INC.

By: _____
Vice President

By: _____
Secretary

COMMONWEALTH OF KENTUCKY
COUNTY OF GREENUP } ss.:

I, a notary public, do hereby certify that on this 29th day of January, 1987, personally appeared before me JOHN P. WARD, who, being duly sworn, declared that he is the Secretary of Ashland Oil, Inc., that he signed the foregoing document as such, and that the statements contained therein are true.

My commission expires:

TERESA F. GABBARD
My commission expires October 9, 1989

_____
Notary Public

Prepared by John P. Ward
1000 Ashland Drive
Russell, Kentucky

_____

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LODGED FOR RECORD ON
THE 30 DAY OF Jan
19 87 AT 9:57 AM RECORDED
IN Art of Inc BOOK
NO 9 PAGE 552
TAX $ _____ FEES $ 5.50
DONALD L DAVIDSON, CLERK
GROUP COUNTY
BY Joni Bussett
D.C.

LODGED FOR RECORD ON
THE 30th DAY OF Jan
19 87 AT 10:47 M RECORDED
IN Art of Inc. BOOK
NO. 25 PAGE 470
TAX $ _____ FEES $ 5.50
WILLIAM A. SELBEE, CLERK
BOYD COUNTY
BY Donna Marcum
D.C.

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ORIGINAL COPY
FILED
SECRETARY OF STATE OF KENTUCKY
FRANKFORT, KENTUCKY

ASHLAND OIL, INC.

CERTIFICATE AND STATEMENT OF RESOLUTION ESTABLISHING AND DESIGNATING CUMULATIVE PREFERRED STOCK, SERIES OF 1987, AND FIXING AND DETERMINING CERTAIN RIGHTS THEREOF AND THE NUMBER OF SHARES INITIALLY ISSUABLE

JAN 29 1987
12:30 pm
Rebecca P. Dees
SECRETARY OF STATE

KNOW ALL MEN BY THESE PRESENTS, that THOMAS L. FEAZELL, as a Vice President, and JOHN P. WARD, as the Secretary, of ASHLAND OIL INC., a Kentucky corporation (the "Company"), do hereby certify that at a meeting of the Board of Directors of the Company duly called and held in accordance with the laws of Kentucky and the By-laws of the Company on January 29, 1987, the following resolution establishing and designating the Series of 1987 of the Cumulative Preferred Stock of the Company and fixing and determining certain rights thereof and the number of shares initially issuable was duly adopted.

"RESOLVED, that, pursuant to the authority expressly granted to and vested in the Board of Directors of the Company (the "Board of Directors") by the Second Restated Articles of Incorporation of the Company (the "Articles"), this Board of Directors hereby establishes and designates a series of Cumulative Preferred Stock, without par value, of the Company and fixes and determines the number of shares to be initially issuable in such series and the relative rights and preferences thereof (in addition to the relative rights and preferences thereof set forth in the Articles which are applicable to Cumulative Preferred Stock of all series) as follows:

SECTION 1. *Designation, Number of Shares and Stated Value.* The shares of such series shall be designated as "Cumulative Preferred Stock, Series of 1987" (the "Series 1987 Preferred Stock"). The stated value per share of the Series 1987 Preferred Stock shall be $25. The number of shares initially issuable and constituting the Series 1987 Preferred Stock shall be 10,000,000.

SECTION 2. *Dividends or Distributions.* (a) The dividend rate for shares of the Series 1987 Preferred Stock shall be per share per annum the amount of cash, securities or other property equal to the sum of the Formula Amounts with respect to each quarterly dividend payable pursuant to Section 2(b) hereof on the Series 1987 Preferred Stock. The Formula Amount with respect to each such quarterly dividend payable shall be the greater of (1) $1.25 or (2) the Formula Number then in effect times the aggregate per whole share amount of (x) dividends payable in cash and (y) dividends or distributions payable in assets, securities or other forms of non-cash consideration (other than dividends or distributions solely in shares of common stock, par value $1.00 of the Company or any stock into which such common stock may be reclassified or changed as contemplated by the second proviso of this Section 2(a) (the "Common Stock")), declared on the Common Stock since the immediately preceding date on which a quarterly dividend was payable under Section 2(b) hereof on the Series 1987 Preferred Stock (a "Quarterly Dividend Payment Date") or, with respect to the first Quarterly Dividend Payment Date, since the first issuance of any share or fraction of a share of Series 1987 Preferred Stock. For purposes of the preceding sentence, the aggregate per whole share amount of all non-cash dividends or distributions with respect to each quarterly payment of dividends on the Series 1987 Preferred Stock shall be the cash amount equivalent to the fair market value of all non-cash dividends or distributions as determined by the Board of Directors, which determination shall be final and binding. On or before the record date fixed or determined pursuant to Section 2(b) hereof for each Quarterly Dividend Payment Date after the date of issuance of any shares of the Series 1987 Preferred Stock, the Company shall submit for filing with the Secretary of State of the Commonwealth of Kentucky a certificate which sets forth the dividend payable for each share of the Series 1987 Preferred Stock on such Quarterly Dividend Payment Date determined in accordance with the provisions of this Section 2(a). As used herein, the "Formula Number" shall be 10; *provided, however,* that if at any time after January 29, 1987, the Company shall (i) pay a dividend (regardless of when declared) or make a distribution, on its outstanding shares of Common Stock payable in shares of Common Stock, (ii) subdivide (by a stock split or otherwise) or split the outstanding shares of Common Stock into a larger number of shares of Common Stock, or (iii) combine (by a reverse stock split or otherwise) the outstanding shares of Common Stock into a smaller number of shares of Common Stock, then in each such event the Formula Number shall be adjusted to a number determined by multiplying the Formula Number in effect immediately prior to such event by a fraction, the numerator of which is the number of shares of Common Stock that are outstanding immediately after such event and the denominator of which is the number of shares that are outstanding

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immediately prior to such event (and rounding the result to the nearest whole number); and *provided further* that if at any time after January 29, 1987, the Company shall reclassify or change the outstanding shares of Common Stock into some other stock (including any such reclassification or change in connection with a merger in which the Company is the surviving corporation), then in such event the Formula Number shall be appropriately adjusted to reflect such reclassification or change.

(b) Except as otherwise provided in the provisions of Article IV of the Articles, and unless prohibited by Kentucky law, the Company shall declare a dividend or distribution on the Series 1987 Preferred Stock as provided in Section 2(a), out of funds legally available therefor, immediately prior to the time it declares a dividend or distribution on the Common Stock (other than a dividend or distribution in shares of Common Stock), and such dividend or distribution on the Series 1987 Preferred Stock shall (except as otherwise provided in Article IV of the Articles) be payable on the same date on which the corresponding dividend or distribution on the Common Stock is payable, to holders of shares of Series 1987 Preferred Stock of record at the close of business on the record date fixed by the Board of Directors, which shall (except as otherwise provided in Article IV of the Articles) be the same as the record date for the corresponding dividend or distribution on the Common Stock; *provided, however,* that, in the event no dividend or distribution (other than a dividend or distribution in shares of Common Stock) shall have been declared on the Common Stock during the three month period after any Quarterly Dividend Payment Date (or with respect to the first Quarterly Dividend Payment Date during the three month period after the first issuance of any share or fraction of a share of Series 1987 Preferred Stock), a dividend of $1.25 per share on the Series 1987 Preferred Stock shall, unless prohibited by Kentucky law, nevertheless be payable, out of funds legally available therefor, 30 days after the last day of such three month period to holders of shares of Series 1987 Preferred Stock of record at the close of business on the record date, which shall (except as otherwise provided in Article IV of the Articles) be 5 days after the last day of such three month period.

SECTION 3. *Voting Rights.* Except as otherwise provided in the provisions of Article IV of the Articles and by the provisions of applicable law, the holders of shares of Series 1987 Preferred Stock shall have the following voting rights:

(a) Each holder of record of one whole share of the Series 1987 Preferred Stock shall be entitled to a number of votes equal to the Formula Number then in effect on all matters on which holders of the Common Stock or stockholders generally are entitled to vote. Each holder of record of a fraction of a share of the Series 1987 Preferred Stock shall be entitled, for each one-tenth (1/10th) of a share, to a number of votes equal to one-tenth (1/10th) of the Formula Number then in effect on all matters on which holders of the Common Stock or stockholders generally are entitled to vote; and

(b) The holders of shares of Series 1987 Preferred Stock and the holders of shares of Common Stock shall vote together as one class for the election of directors of the Company and on all other matters submitted to a vote of stockholders of the Company.

SECTION 4. *Liquidation Rights.* Upon the voluntary or involuntary liquidation, dissolution or winding up of the Company, and before any distribution is made to the holders of Common Stock, the holder of each full share or fraction of a share of Series 1987 Preferred Stock shall be entitled to be paid an amount equal to the accrued and unpaid dividends and distributions thereon, whether or not declared, to the date of such payment, plus an amount per whole share equal to the greater of (1) $25 per share or (2) the Formula Number then in effect times the aggregate amount to be distributed per share to holders of Common Stock.

SECTION 5. *Consolidation, Merger, etc.* Except as otherwise provided in Article IV of the Articles, in case the Company shall enter into any consolidation, merger, combination or other transaction in which the outstanding shares of Common Stock are exchanged for or changed into other stock or securities, cash or any other property, then in any such case the then outstanding shares of Series 1987 Preferred Stock shall at the same time be similarly exchanged or changed in an amount per share equal to the Formula Number then in effect times the aggregate amount of stock, securities, cash or other property (payable in kind), as the case may be, into which or for which each share of Common Stock is exchanged or changed.

SECTION 6. *No Redemption.* Except as otherwise provided in Section 5, the shares of Series 1987 Preferred Stock shall not be subject to redemption by the Company or at the option of any holder of Series 1987 Preferred

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Stock; provided, however, that the Company may purchase or otherwise acquire outstanding shares of Series 1987 Preferred Stock in the open market or by offer to any holder or holders of shares of Series 1987 Preferred Stock.

SECTION 7. *Fractional Shares.* The Series 1987 Preferred Stock shall be issuable upon exercise of the Rights issued pursuant to the Rights Agreement dated as of May 15, 1986, between the Company and The Chase Manhattan Bank, N.A., as Rights Agent, as amended, (a copy of which is filed with the Securities and Exchange Commission), in whole shares or, at the option of the Company, in any fraction of a share that is one-tenth (1/10th) of a share or any integral multiple of such fraction. At the election of the Company prior to the first issuance of a share or a fraction of a share of Series 1987 Preferred Stock, either (1) certificates may be issued to evidence any such authorized fraction of a share of Series 1987 Preferred Stock, or (2) any such authorized fraction of a share of Series 1987 Preferred Stock may be evidenced by scrip or warrants in registered form which shall entitle the holder thereof to receive a certificate for a full share upon the surrender of such scrip or warrants aggregating a full share. The holders of such scrip or warrants shall have all the rights, privileges and preferences to which the holders of fractional shares are entitled. In lieu of such fractional shares or scrip or warrants, the Company may pay registered holders cash equal to the same fraction of the current market value of a share of Series 1987 Preferred Stock (if any are outstanding) or the equivalent number of shares of Common Stock.

SECTION 8. *Amendments.* The Board of Directors reserves the right by subsequent amendment of this resolution from time to time to increase and, in its discretion, to decrease the number of shares issuable in this series and in other respects to amend this resolution within the limitations provided by Kentucky law and the Articles.

SECTION 9. *Definitions.* For purposes of this resolution, all terms defined in the Articles shall have the same meaning herein, except as otherwise specifically provided herein."

IN TESTIMONY WHEREOF, witness our signatures this 29th day of January, 1987.

Thomas L. Feazell
Vice President

John P. Ward
Secretary

COMMONWEALTH OF KENTUCKY
COUNTY OF GREENUP } ss:

I, Teresa F, Gabbard , a Notary Public, do hereby certify that on this 29th day of January, 1987, personally appeared before me JOHN P. WARD, who being by me first duly sworn, declared that he is the Secretary of ASHLAND OIL, INC., and that he signed the foregoing document as Secretary of the Company and that the statements therein contained are true.

Notary Public
TERESA F. GABBARD
My commission expires October 9, 1989

Prepared by:
John P. Ward
1000 Ashland Drive
Russell, Kentucky 41169

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LODGED FOR RECORD ON
THE 30th DAY OF Jan.
19 87 AT 10:46 M RECORDED
IN Art. of Inc. BOOK
NO. 35 PAGE 461
TAX $ ____ FEES $ 14.50
WILLIAM A. SELBEE, CLERK
BOYD COUNTY
BY Donna Marcum D.C.

LODGED FOR RECORD ON
THE 30 DAY OF Jan
19 87 AT 9:53 AM RECORDED
IN Art of Inc BOOK
NO 9 PAGE 543
TAX $ ____ FEES $ 14.50
DONALD L. DAVIDSON, CLERK
GREENUP COUNTY
BY Joan Burnett D.C.

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ORIGINAL COPY FILED
SECRETARY OF STATE OF KENTUCKY
FRANKFORT, KENTUCKY

JAN 28 1988 11:05 A.M.

Bremer Ehrler
SECRETARY OF STATE

AMENDMENT TO SECOND RESTATED ARTICLES OF INCORPORATION OF ASHLAND OIL, INC.

AMENDMENT NO. 1

KNOW ALL MEN BY THESE PRESENTS, that Thomas L. Feazell, as Vice President, and John P. Ward, as Secretary of Ashland Oil, Inc., a Kentucky corporation (the "Company") do hereby certify that, at a meeting on January 28, 1988 of the holders of its issued and outstanding stock, which meeting was duly called upon notice of the specific purpose, the holders of a majority of the outstanding stock entitled to vote adopted a new Article X of the Second Restated Articles of Incorporation (the "Articles") of the Company which reads in its entirety as follows:

> Notwithstanding any right to indemnification provided by the Act to any director, officer, employee or agent of the Company, the Company may, but shall not be required to, to the maximum extent permitted by law, indemnify any such person against costs and expenses (including but not limited to attorneys' fees) and any liabilities (including but not limited to judgments, fines, penalties and settlements) paid by or imposed against any such person in connection with any actual or threatened claim, action, suit or proceeding, whether civil, criminal, administrative, legislative, investigative or other (including any appeal relating thereto) and whether made or brought by or in the right of the Company or otherwise, in which any such person is involved, whether as a party, witness, or otherwise, because he or she is or was a director, officer, employee or agent of the Company or a director, officer, partner, trustee, employee or agent of any other corporation, partnership, employee benefit plan or other entity.
>
> The indemnification authorized by this Article X shall not supersede or be exclusive of any other right of indemnification which any such person may have or hereafter acquire under any provision of these Articles or the By-laws of the Company, agreement, vote of shareholders or disinterested directors or otherwise. The Company may take such steps as may be deemed appropriate by the Board of Directors to provide indemnification to any such person, including, without limitation, entering into contracts for indemnification between the Company and individual directors, officers, employees or agents which may provide rights to indemnification which are broader or otherwise different than the rights authorized by this Article. The Company may take such steps as may be deemed appropriate by the Board of Directors to secure, subject to the occurrence of such conditions or events as may be determined by the Board of Directors, the payment of such amounts as are required to effect any indemnification permitted or authorized by this Article, including, without limitation, purchasing and maintaining insurance, creating a trust fund, granting security interests or using other means (including, without limitation, irrevocable letters of credit).
>
> Any amendment or repeal of this Article X shall operate prospectively only and shall not affect any action taken, or failure to act, by the Company or any such person prior to such amendment or repeal.

IN TESTIMONY WHEREOF, witness our signatures this 28th day of January, 1988.

Thomas L. Feazell, Vice President

John P. Ward, Secretary

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COMMONWEALTH OF KENTUCKY
COUNTY OF GREENUP } SS.:

I, Valerie J. Parks, Notary Public, do hereby certify that on this 28th day of January, 1988, personally appeared before me JOHN P. WARD, who being by me first duly sworn, declared that he is the Secretary of ASHLAND OIL, INC., and that he signed the foregoing document as such and that the statements therein contained are true.

Valerie J Parks
Notary Public

My Commission Expires:

VALERIE J. PARKS
My Commission expires November 11, 1990

Prepared by John P. Ward
1000 Ashland Drive,
Russell, Kentucky

John P Ward

LODGED FOR RECORD ON
THE 29th DAY OF Jan
1988 AT 10:15AM RECORDED
IN Articles of Inc BOOK
NO. 32 PAGE 169
TAX $ FEES $ 5.50
DONALD L. DAVIDSON, CLERK
GREENUP COUNTY
BY D.C.

LODGED FOR RECORD ON
THE 29th DAY OF Jan
1988 AT 10:55AM RECORDED
IN Art. Inc BOOK
NO. 25 PAGE
TAX $ FEES $ 5.50
WILLIAM A. SELBEE, CLERK
BOYD COUNTY
BY D.C.

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DATE JAN 2 7 1989
TIME 2:02PM
AMOUNT $40.00

BREWER BAILEY
SECRETARY OF STATE
COMMONWEALTH OF KENTUCKY
AH

ARTICLES OF AMENDMENT
TO
SECOND RESTATED ARTICLES OF INCORPORATION
OF ASHLAND OIL, INC.
AMENDMENT NO. 2

Pursuant to the provisions of Section 271B.10-060 of the Kentucky Business Corporation Act, the undersigned corporation adopts the following articles of amendment to its Second Restated Articles of Incorporation:

First: The name of the corporation is Ashland Oil, Inc.

Second: At a meeting of the Board of Directors held on November 3, 1988, the Board of Directors proposed that the Second Restated Articles of Incorporation be amended by adding a new Article XI, and directed that the proposed amendment be submitted to the shareholders with the affirmative recommendation of the Board of Directors at a meeting of the company's shareholders to be held on January 26, 1989 (the "Meeting"), which Meeting was duly called upon notice of the specific purpose. The text of the new Article XI is as follows:

ARTICLE XI

No director shall be personally liable to the Company or its shareholders for monetary damages for breach of his duties as a director except to the extent that the applicable law from time to time in effect shall provide that such liability may not be eliminated or limited.

Neither the amendment nor repeal of this Article XI shall affect the liability of any director of the Company with respect to any act or failure to act which occurred prior to such amendment or repeal.

This Article XI is not intended to eliminate or limit any protection otherwise available to the directors of the Company.

Third: There were 58,707,121 shares of Ashland Oil, Inc. Common Stock, each of which was entitled to cast one vote, outstanding at December 8, 1988, the record date for the Meeting, which represent all of the shares entitled to vote on such amendment.

Fourth: There were 50,687,052 shares of Ashland Oil, Inc. Common Stock indisputably represented at the Meeting.

Fifth: The total number of votes cast for such amendment was 47,745,995 and the total number of votes cast against such amendment was 2,231,353.

Dated January 27, 1989.

ASHLAND OIL, INC.

By: Thomas L. Feazell
Thomas L. Feazell
Administrative Vice President
and General Counsel

and

John P. Ward
John P. Ward
Secretary

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COMMONWEALTH OF KENTUCKY)
COUNTY OF GREENUP)

The foregoing instrument was acknowledged before me this 27th day of January, 1989, by Thomas L. Feazell, Administrative Vice President and General Counsel, and John P. Ward, Secretary, of ASHLAND OIL, INC., a Kentucky corporation, on behalf of the corporation.

Valerie J. Parks
Notary Public

VALERIE J. PARKS
My Commission expires November 11, 1990

Prepared by John P. Ward
1000 Ashland Drive
Russell, Kentucky 41114

John P. Ward

LODGED FOR RECORD ON
THE 30 DAY OF Jan
1989 AT 9:40 A M RECORDED
IN Art of Inc BOOK
NO. 10 PAGE 423
TAX $ _____ FEES $ 5.50
DONALD L. DAVIDSON, CLERK
GREENUP COUNTY
BY Joan Burnett D.C.

No. .....
LODGED FOR REC...
the 30 day of Jan
89 at 10:25 A.M. Rec...
Art of Inc Book
26 Page 522

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Ck # 1602

MAR 18 10 52 AM '93

BOB BABBAGE
SECRETARY OF STATE
COMMONWEALTH OF KENTUCKY

ARTICLES OF AMENDMENT TO SECOND RESTATED ARTICLES OF INCORPORATION OF ASHLAND OIL, INC.

AMENDMENT NO. 3

Pursuant to the provisions of Section 271B.10-060 of the Kentucky Business Corporation Act, the undersigned corporation adopts the following articles of amendment to set forth the preferences, limitations and relative rights of a series of shares of its Cumulative Preferred Stock, no par value, under Article IV of its Second Restated Articles of Incorporation:

First: The name of the Corporation is Ashland Oil, Inc.

Second: The text of the amendment determining the terms of the series of shares of the Cumulative Preferred Stock is as follows:

I. *Designation of Series and Number of Shares to be Issuable Therein.* This series of the Cumulative Preferred Stock shall be designated $3.125 Cumulative Convertible Preferred Stock (hereinafter called the "Convertible Preferred Stock"), of which 6,000,000 shares shall be issuable.

II. *Rank.* All shares of Convertible Preferred Stock shall rank prior, both as to payment of dividends and as to distributions of assets upon liquidation, dissolution or winding up of the Corporation, whether voluntary or involuntary, to all of the Corporation's now or hereafter issued Common Stock (the "Common Stock"), to all of the Corporation's Cumulative Preferred Stock, Series of 1987, when and if issued, and to all of the Corporation's hereafter issued capital stock ranking junior to the Convertible Preferred Stock both as to the payment of dividends and as to distributions of assets upon liquidation, dissolution or winding up of the Corporation, whether voluntary or involuntary, when and if issued (the Common Stock, the Cumulative Preferred Stock, Series of 1987, and any such other capital stock being herein referred to as "Junior Stock").

III. *Dividends.* The holders of Convertible Preferred Stock shall be entitled to receive, when, as and if declared by the Board of Directors out of funds at the time legally available therefor, dividends at the rate of $3.125 per annum per share, and no more, which shall be fully cumulative, shall accrue without interest from the date of initial issuance of such shares of Convertible Preferred Stock (on a daily basis whether or not such amounts would be available at that time for distribution to holders of shares of Convertible Preferred Stock) and shall be payable in cash quarterly in arrears on March 15, June 15, September 15 and December 15 of each year commencing June 15, 1993 (with respect to the period from such date of initial issuance to June 15, 1993) (except that if any such date is a Saturday, Sunday or legal holiday, then such dividend shall be payable on the next day that is not a Saturday, Sunday or legal holiday) to holders of record as they appear upon the stock transfer books of the Corporation on such record dates, not more than sixty days nor less than ten days preceding the payment dates for such dividends, as are fixed by the Board of Directors (or, to the extent permitted by applicable law, a duly authorized committee thereof). In no event shall any such dividend record date be fixed less than (a) six business days prior to any date fixed for the redemption of the Convertible Preferred Stock or (b) with respect to the dividend payment date occurring on March 15, 1997, less than ten business days prior to any date fixed for such redemption. For purposes hereof, the term "legal holiday" shall mean any day on which banking institutions are authorized to close in New York, New York and the term "business day" shall mean any day other than a Saturday, Sunday or legal holiday. Subject to the next paragraph of this Section III, dividends on account of arrears for any past dividend period may be declared and paid at any time, without reference to any regular dividend payment date. The amount of dividends payable per share of Convertible Preferred Stock for each quarterly dividend period shall be computed by dividing the annual dividend amount by four. The amount of dividends payable for the initial dividend period and any period shorter than a full quarterly period shall be computed on the basis of a 360-day year of twelve 30-day months. No interest shall be payable in respect of any dividend payment on the Convertible Preferred Stock which may be in arrears.

No dividends or other distributions, other than dividends payable solely in shares of Junior Stock, shall be

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declared, paid or set apart for payment on shares of Junior Stock or any other capital stock of the Corporation ranking junior as to dividends to the Convertible Preferred Stock (the Junior Stock and any such other class or series of the Corporation's capital stock being herein referred to as "Junior Dividend Stock"), unless and until all accrued and unpaid dividends on the Convertible Preferred Stock for all dividend payment periods ending on or before the payment date of such dividends or other distributions on Junior Dividend Stock shall have been paid or declared and set apart for payment.

No payment on account of the purchase, redemption, retirement or other acquisition of shares of Junior Dividend Stock or any other class or series of the Corporation's capital stock ranking junior to the Convertible Preferred Stock as to distributions of assets upon liquidation, dissolution or winding up of the Corporation, whether voluntary or involuntary (the Junior Stock and any other class or series of the Corporation's capital stock ranking junior to the Convertible Preferred Stock as to such distributions being herein referred to as "Junior Liquidation Stock") shall be made unless and until all accrued and unpaid dividends on the Convertible Preferred Stock for all dividend payment periods ending on or before such payment for such Junior Dividend Stock or Junior Liquidation Stock shall have been paid or declared and set apart for payment; provided, however, that the restrictions set forth in this sentence shall not apply to the purchase or other acquisition of Junior Dividend Stock or Junior Liquidation Stock either (A) pursuant to any employee or director incentive or benefit plan or arrangement (including any employment, severance or consulting agreement) of the Corporation or any subsidiary of the Corporation heretofore or hereafter adopted or (B) in exchange solely for Junior Stock.

No full dividends shall be declared, paid or set apart for payment on shares of any class or series of the corporation's capital stock hereafter issued ranking, as to dividends, on a parity with the Convertible Preferred Stock (any such class or series of the Corporation's capital stock being herein referred to as "Parity Dividend Stock") for any period unless full cumulative dividends have been, or contemporaneously are, paid or declared and set apart for such payment on the Convertible Preferred Stock for all dividend payment periods ending on or before the payment date of such dividends on Parity Dividend Stock. No dividends shall be paid on Parity Dividend Stock except on dates on which dividends are paid on the Convertible Preferred Stock. All dividends paid or declared and set apart for payment on the Convertible Preferred Stock and the Parity Dividend Stock shall be paid or declared and set apart for payment pro rata so that the amount of dividends paid or declared and set apart for payment per share on the Convertible Preferred Stock and the Parity Dividend Stock on any date shall in all cases bear to each other the same ratio that accrued and unpaid dividends to the date of payment on the Convertible Preferred Stock and the Parity Dividend Stock bear to each other.

No payment on account of the purchase, redemption, retirement or other acquisition of shares of Junior Stock, Parity Dividend Stock or any class or series of the Corporation's capital stock ranking on a parity with the Convertible Preferred Stock as to distributions of assets upon liquidation, dissolution or winding up of the Corporation, whether voluntary or involuntary (any such class or series of the Corporation's capital stock being herein referred to as "Parity Liquidation Stock") shall be made, and, other than dividends to the extent permitted by the preceding paragraph, no distributions shall be declared, paid or set apart for payment on shares of Parity Dividend Stock or Parity Liquidation Stock, unless and until all accrued and unpaid dividends on the Convertible Preferred Stock for all dividend payment periods ending on or before such payment for, or the payment date of such distributions on, such Parity Dividend Stock or Parity Liquidation Stock shall have been paid or declared and set apart for payment; provided, however, that the restrictions set forth in this sentence shall not apply to the purchase or other acquisition of Parity Dividend Stock or Parity Liquidation Stock either (A) pursuant to any employee or director incentive or benefit plan or arrangement (including any employment, severance or consulting agreement) of the Corporation or any subsidiary of the Corporation hereafter adopted or (B) in exchange solely for Junior Stock.

Any reference to "distribution" contained in this Section III shall not be deemed, except as expressly stated, to include any distribution made in connection with any liquidation, dissolution or winding up of the Corporation, whether voluntary or involuntary.

IV. *Liquidation Preference.* In the event of a liquidation, dissolution or winding up of the Corporation,

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whether voluntary or involuntary, the holders of shares of Convertible Preferred Stock shall be entitled to receive out of the assets of the Corporation available for distribution to shareholders an amount equal to the dividends accrued and unpaid on such shares on the date of final distribution to such holders, whether or not declared, without interest, plus a sum equal to $50 per share, and no more, before any payment shall be made or any assets distributed to the holders of shares of Junior Liquidation Stock; *provided, however*, that such rights shall accrue to the holders of shares of Convertible Preferred Stock only with respect to assets (if any) remaining after the Corporation's payments with respect to the liquidation preferences of the shares of any class or series of the Corporation's capital stock hereafter issued ranking prior to the Convertible Preferred Stock as to distributions of assets upon such liquidation, dissolution or winding up ("Senior Liquidation Stock") are fully met. The entire assets of the Corporation available for distribution to shareholders after the liquidation preferences of the shares of Senior Liquidation Stock are fully met shall be distributed ratably among the holders of the Convertible Preferred Stock and Parity Liquidation Stock in proportion to the respective preferential amounts to which each is entitled (but only to the extent of such preferential amounts). After payment in full of the liquidation preferences of the shares of the Convertible Preferred Stock, the holders of such shares shall not be entitled to any further participation in any distribution of assets by the Corporation. The voluntary sale, lease, exchange or transfer of all or substantially all of the Company's property or assets to, or its consolidation or merger with, one or more corporations shall not be deemed to be considered a voluntary or involuntary liquidation, dissolution or winding up of the Corporation.

V. *Redemption at Option of the Corporation.* The Convertible Preferred Stock may not be redeemed by the Corporation prior to March 25, 1997. On and after such date, the Convertible Preferred Stock may be redeemed by the Corporation, at its option on any date set by the Board of Directors, in whole or in part at any time, subject to the limitations, if any, imposed by the Kentucky Business Corporation Act, for an amount in cash equal to the applicable price per share set forth for the date fixed for redemption in the following table:

Date Fixed for Redemption	Price
On or after March 25, 1997 and on or before March 14, 1998	$51.88
After March 14, 1998 and on or before March 14, 1999	$51.56
After March 14, 1999 and on or before March 14, 2000	$51.25
After March 14, 2000 and on or before March 14, 2001	$50.94
After March 14, 2001 and on or before March 14, 2002	$50.63
After March 14, 2002 and on or before March 14, 2003	$50.31
Any date after March 14, 2003	$50.00

plus, in each case, an amount in cash equal to all per share dividends on the Convertible Preferred Stock accrued and unpaid thereon, whether or not declared, to but excluding the date fixed for redemption, such sum being hereinafter referred to as the "Redemption Price".

In case of the redemption of less than all of the then outstanding Convertible Preferred Stock, the Corporation shall designate by lot, or in such other manner as the Board of Directors may determine to be fair, the shares to be redeemed, or shall effect such redemption pro rata. Notwithstanding the foregoing, the Corporation shall not redeem less than all of the Convertible Preferred Stock at any time outstanding until all dividends accrued and in arrears upon all Convertible Preferred Stock then outstanding shall have been paid in full for all past dividend periods.

Not more than ninety nor less than thirty days prior to the date fixed for redemption by the Board of Directors, notice thereof by first class mail, postage prepaid, shall be given to the holders of record of the shares of Convertible Preferred Stock to be redeemed, addressed to such holders at their last addresses as shown upon the stock transfer books of the Corporation. Each such notice of redemption shall specify the date fixed for redemption, the Redemption Price, the place or places of payment, that payment will be made upon presentation and surrender of the shares of Convertible Preferred Stock, that on and after the date fixed for redemption dividends will cease to accrue on such shares, the then-effective conversion price pursuant to Section VI and that the right of holders to convert shares of Convertible Preferred Stock shall terminate at the close of business on

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the fifth business day prior to the date fixed for redemption (unless the Corporation defaults in the payment of the Redemption Price).

Any notice that is mailed as herein provided shall be conclusively presumed to have been duly given, whether or not the holder of shares of Convertible Preferred Stock receives such notice; and failure to give such notice by mail, or any defect in such notice, to the holders of any shares designated for redemption shall not affect the validity of the proceedings for the redemption of any other shares of Convertible Preferred Stock. On or after the date fixed for redemption as stated in such notice, each holder of the shares called for redemption shall surrender the certificate evidencing such shares to the Corporation at the place designated in such notice and shall thereupon be entitled to receive payment of the Redemption Price. If less than all the shares evidenced by any such surrendered certificate are redeemed, a new certificate shall be issued evidencing the unredeemed shares.

No fractional shares of Convertible Preferred Stock shall be issued upon redemption of less than all Convertible Preferred Stock. If more than one certificate evidencing shares of Convertible Preferred Stock shall be held at one time by the same holder, the number of full shares issuable upon redemption of less than all of such shares of Convertible Preferred Stock shall be computed on the basis of the aggregate number of shares of Convertible Preferred Stock so held. Instead of any fractional share of Convertible Preferred Stock that would otherwise be issuable to a holder upon redemption of less than all shares of Convertible Preferred Stock, the Corporation shall pay a cash adjustment in respect of such fractional share in an amount equal to the same fraction of the fair value per share of Convertible Preferred Stock (as determined in good faith by the Board of Directors or in any manner prescribed by the Board of Directors) at the close of business on the date fixed for redemption.

Notice having been given as aforesaid, if, on the date fixed for redemption, funds necessary for the redemption shall be available therefor and shall have been deposited with a bank or trust company with irrevocable instructions and authority to pay the Redemption Price to the holders of the Convertible Preferred Stock, then, notwithstanding that the certificates evidencing any shares so called for redemption shall not have been surrendered, dividends with respect to the shares so called shall cease to accrue on and after the date fixed for redemption, such shares shall no longer be deemed outstanding, the holders thereof shall cease to be shareholders of the Corporation and all rights whatsoever with respect to the shares so called for redemption (except the right of the holders to receive the Redemption Price without interest upon surrender of their certificates therefor) shall terminate. If funds legally available for such purpose are not sufficient for redemption of the shares of Convertible Preferred Stock which were to be redeemed, then the certificates evidencing such shares shall be deemed not to be surrendered, such shares shall remain outstanding and the right of holders of shares of Convertible Preferred Stock thereafter shall continue to be only those of a holder of shares of the Convertible Preferred Stock.

The shares of Convertible Preferred Stock shall not be subject to the operation of any mandatory purchase, retirement or sinking fund.

VI. *Conversion Privilege.*

(a) *Right of Conversion.* Each share of Convertible Preferred Stock shall be convertible at the option of the holder thereof, at any time prior to the close of business on the fifth business day prior to the date fixed for redemption of such share as herein provided, into fully paid and nonassessable shares of Common Stock, at the rate of that number of shares of Common Stock for each full share of Convertible Preferred Stock that is equal to $50 divided by the conversion price applicable per share of Common Stock, or into such additional or other securities, cash or property and at such other rates as required in accordance with the provisions of this Section VI. For purposes of this resolution, the "conversion price" applicable per share of Common Stock shall initially be equal to $32.343 and shall be adjusted from time to time in accordance with the provisions of this Section VI.

(b) *Conversion Procedures.* Any holder of shares of Convertible Preferred Stock desiring to convert such shares into Common Stock shall surrender the certificate or certificates evidencing such shares of Convertible

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Preferred Stock at the office of the transfer agent for the Convertible Preferred Stock, which certificate or certificates, if the Corporation shall so require, shall be duly endorsed to the Corporation or in blank, or accompanied by proper instruments of transfer to the Corporation or in blank, accompanied by irrevocable written notice to the Corporation that the holder elects so to convert such shares of Convertible Preferred Stock and specifying the name or names (with address or addresses) in which a certificate or certificates evidencing shares of Common Stock are to be issued.

Subject to Section VI(1) hereof, no payments or adjustments in respect of dividends on shares of Convertible Preferred Stock surrendered for conversion or on account of any dividend on the Common Stock issued upon conversion shall be made upon the conversion of any shares of Convertible Preferred Stock and the holder will lose any right to payment of dividends on the shares of Convertible Preferred Stock surrendered for conversion.

The Corporation shall, as soon as practicable after such deposit of certificates evidencing shares of Convertible Preferred Stock accompanied by the written notice and compliance with any other conditions herein contained, deliver at such office of such transfer agent to the person for whose account such shares of Convertible Preferred Stock were so surrendered, or to the nominee or nominees of such person, certificates evidencing the number of full shares of Common Stock to which such person shall be entitled as aforesaid, together with a cash adjustment in respect of any fraction of a share of Common Stock as hereinafter provided. Such conversion shall be deemed to have been made as of the date of such surrender of the shares of Convertible Preferred Stock to be converted, and the person or persons entitled to receive the Common Stock deliverable upon conversion of such Convertible Preferred Stock shall be treated for all purposes as the record holder or holders of such Common Stock on such date.

(c) *Adjustment of Conversion Price.* The conversion price at which a share of Convertible Preferred Stock is convertible into Common Stock shall be subject to adjustment from time to time as follows:

(i) In case the Corporation shall pay or make a dividend or other distribution on its Common Stock exclusively in Common Stock or shall pay or make a dividend or other distribution on any other class or series of capital stock of the Corporation which dividend or distribution includes Common Stock, the conversion price in effect at the opening of business on the day following the date fixed for the determination of shareholders entitled to receive such dividend or other distribution shall be reduced by multiplying such conversion price by a fraction of which the numerator shall be the number of shares of Common Stock outstanding at the close of business on the date fixed for such determination and the denominator shall be the sum of such number of shares and the total number of shares constituting such dividend or other, such reduction to become effective immediately after the opening of business on the day following the date fixed for such determination.

(ii) In case the Corporation shall pay or make a dividend or other distribution on its Common Stock consisting exclusively of, or shall otherwise issue to all holders of its Common Stock, rights or warrants entitling the holders thereof to subscribe for or purchase shares of Common Stock at a price per share less than the current market price per share (determined as provided in subparagraph (vi) of this Section VI(c)) of the Common Stock on the date fixed for the determination of shareholders entitled to receive such rights or warrants, the conversion price in effect at the opening of business on the day following the date fixed for such determination shall be reduced by multiplying such conversion price by a fraction of which the numerator shall be the number of shares of Common Stock outstanding at the close of business on the date fixed for such determination plus the number of shares of Common Stock which the aggregate of the offering price of the total number of shares of Common Stock so offered for subscription or purchase would purchase at such current market price and the denominator shall be the number of shares of Common Stock outstanding at the close of business on the date fixed for such determination plus the number of shares of Common Stock so offered for subscription or purchase, such reduction to become effective immediately after the opening of business on the day following the date fixed for such determination. In case any rights or warrants referred to in this subparagraph (ii) in respect of which an adjustment shall have been made shall

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expire unexercised within 45 days after the same shall have been distributed or issued by the Corporation, the conversion price shall be readjusted at the time of such expiration to the conversion price that would have been in effect if no adjustment had been made on account of the distribution or issuance of such expired rights or warrants. For the purposes of this Section VI(c)(ii), if both (A) a Distribution Date (as such term is defined in the Rights Agreement) and (B) an event set forth in Section 11(d)(i) or 13(a) of the Rights Agreement shall have occurred, then the later to occur of such events shall be deemed to constitute an issuance of rights to purchase shares of the related common stock.

(iii) In case outstanding shares of Common Stock shall be subdivided into a greater number of shares of Common Stock, the conversion price in effect at the opening of business on the day following the day upon which such subdivision becomes effective shall be proportionately reduced, and conversely, in case outstanding shares of Common Stock shall each be combined into a smaller number of shares of Common Stock, the conversion price in effect at the opening of business on the day following the day upon which such combination becomes effective shall be proportionately increased, such reduction or increase, as the case may be, to become effective immediately after the opening of business on the day following the day upon which such subdivision or combination becomes effective.

(iv) Subject to the last sentence of this subparagraph (iv), in case the Corporation shall, by dividend or otherwise, distribute to all holders of its Common Stock evidences of its indebtedness, shares of any class or series of capital stock, cash or assets (including securities, but excluding any rights or warrants referred to in subparagraph (ii) of this Section VI(c), any dividend or distribution paid exclusively in cash and any dividend or distribution referred to in subparagraph (i) of this Section VI(c)), the conversion price shall be reduced so that the same shall equal the price determined by multiplying the conversion price in effect immediately prior to the effectiveness of the conversion price reduction contemplated by this subparagraph (iv) by a fraction of which the numerator shall be the current market price per share (determined as provided in subparagraph (vi) of this Section VI(c)) of the Common Stock on the date fixed for the payment of such distribution (the "Reference Date") less the fair market value (as determined in good faith by the Board of Directors, whose determination shall be conclusive and described in a resolution of the Board of Directors), on the Reference Date, of the portion of the evidences of indebtedness, shares of capital stock, cash and assets so distributed applicable to one share of Common Stock and the denominator shall be such current market price per share of the Common Stock, such reduction to become effective immediately prior to the opening of business on the day following the Reference Date. If the Board of Directors determines the fair market value of any distribution for purposes of this subparagraph (iv) by reference to the actual or when issued trading market for any securities comprising such distribution, it must in doing so consider the prices in such market over the same period used in computing the current market price per share of Common Stock pursuant to subparagraph (vi) of this Section VI(c). For purposes of this subparagraph (iv), any dividend or distribution that includes shares of Common Stock or rights or warrants to subscribe for or purchase shares of Common Stock shall be deemed instead to be (1) a dividend or distribution of the evidences of indebtedness, cash, assets or shares of capital stock other than such shares of Common Stock or rights or warrants (making any further conversion price reduction required by this subparagraph (iv) immediately followed by (2) a dividend or distribution of such shares of Common Stock or such rights or warrants (making any further conversion price reduction required by subparagraph (i) or (ii) of this Section VI(c), except (A) the Reference Date of such dividend or distribution as defined in this subparagraph (iv) shall be substituted as "the date fixed for the determination of shareholders entitled to receive such dividend or other distribution or to exchange such Rights", "the date fixed for the determination of shareholders entitled to receive such rights or warrants" and "the date fixed for such determination" within the meaning of subparagraphs (i) and (ii) of this Section VI(c) and (B) any shares of Common Stock included in such dividend or distribution shall not be deemed "outstanding at the close of business on the date fixed for such determination" within the meaning of subparagraph (i) of this Section VI(c)).

(v) In case the Corporation shall pay or make a dividend or other distribution on its Common Stock exclusively in cash (excluding (A) cash that is part of a distribution referred to in (iv) above and, (B) in the

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case of any quarterly cash dividend on the Common Stock, the portion thereof that does not exceed the per share amount of the next preceding quarterly cash dividend on the Common Stock (as adjusted to appropriately reflect any of the events referred to in subparagraphs (i), (ii), (iii), (iv) and (v) of this Section VI(c)), or all of such quarterly cash dividend if the amount thereof per share of Common Stock multiplied by four does not exceed 15% of the current market price per share (determined as provided in subparagraph (vi) of this Section VI(c) of the Common Stock on the Trading Day (as defined in Section VI(i) next preceding the date of declaration of such dividend), the conversion price shall be reduced so that the same shall equal the price determined by multiplying the conversion price in effect immediately prior to the effectiveness of the conversion price reduction contemplated by this subparagraph (v) by a fraction of which the numerator shall be the current market price per share (determined as provided in subparagraph (vi) of this Section VI(c)) of the Common Stock on the date fixed for the payment of such distribution less the amount of cash so distributed and not excluded as provided above applicable to one share of Common Stock and the denominator shall be such current market price per share of the Common Stock, such reduction to become effective immediately prior to the opening of business on the day following the date fixed for the payment of such distribution.

(vi) For the purpose of any computation under subparagraphs (ii), (iv) and (v) of this Section VI(c), the current market price per share of Common Stock on any date in question shall be deemed to be the average of the daily Closing Prices (as defined in Section VI(i)) for the five consecutive Trading Days prior to and including the date in question; *provided, however*, that (1) if the "ex" date (as hereinafter defined) for any event (other than the issuance or distribution requiring such computation) that requires an adjustment to the conversion price pursuant to subparagraph (i), (ii), (iii), (iv), or (v) above ("Other Event") occurs after the fifth Trading Day prior to the day in question and prior to the "ex" date for the issuance or distribution requiring such computation (the "Current Event"), the Closing Price for each Trading Day prior to the "ex" date for such Other Event shall be adjusted by multiplying such Closing Price by the same fraction by which the conversion price is so required to be adjusted as a result of such Other Event, (2) if the "ex" date for any Other Event occurs after the "ex" date for the Current Event and on or prior to the date in question, the Closing Price for each Trading Day on and after the "ex" date for such Other Event shall be adjusted by multiplying such Closing Price by the reciprocal of the fraction by which the conversion price is so required to be adjusted as a result of such Other Event, (3) if the "ex" date for any Other Event occurs on the "ex" date for the Current Event, one of those events shall be deemed for purposes of clauses (1) and (2) of this proviso to have an "ex" date occurring prior to the "ex" date for the other event, and (4) if the "ex" date for the Current Event is on or prior to the date in question, after taking into account any adjustment required pursuant to clause (2) of this proviso, the Closing Price for each Trading Day on or after such "ex" date shall be adjusted by adding thereto the amount of any cash and the fair market value on the date in question (as determined in good faith by the Board of Directors in a manner consistent with any determination of such value for purposes of paragraph (iv) or (v) of this Section VI(c), whose determination shall be conclusive and described in a resolution of the Board of Directors) of the portion of the rights, warrants, evidences of indebtedness, shares of capital stock or assets being distributed applicable to one share of Common Stock. For purposes of this paragraph, the term "ex" date, (1) when used with respect to any issuance or distribution, means the first date on which the Common Stock trades regular way on the relevant exchange or in the relevant market from which the Closing Price was obtained without the right to receive such issuance or distribution and (2) when used with respect to any subdivision or combination of shares of Common Stock, means the first date on which the Common Stock trades regular way on such exchange or in such market after the time at which such subdivision or combination becomes effective.

(vii) No adjustment in the conversion price shall be required unless such adjustment would require an increase or decrease of at least 1% in the conversion price; *provided, however*, that any adjustments which by reason of this subparagraph (vii) are not required to be made shall be carried forward and taken into account in any subsequent adjustment.

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(viii) Whenever the conversion price is adjusted as herein provided:

(1) the Corporation shall compute the adjusted conversion price and shall prepare a certificate signed by the Treasurer of the Corporation setting forth the adjusted conversion price and showing in reasonable detail the facts upon which such adjustment is based, and such certificate shall forthwith be filed with the transfer agent for the Convertible Preferred Stock; and

(2) a notice stating that the conversion price has been adjusted and setting forth the adjusted conversion price shall forthwith be required, and as soon as practicable after it is required, such notice shall be mailed by the Corporation to all record holders of shares of Convertible Preferred Stock at their last addresses as they shall appear upon the stock transfer books of the Corporation.

(ix) The Corporation from time to time may reduce the conversion price by any amount for any period of time if the period is at least twenty days, the reduction is irrevocable during the period and the Board of Directors of the Corporation shall have made a determination that such reduction would be in the best interest of the Corporation, which determination shall be conclusive. Whenever the conversion price is reduced pursuant to the preceding sentence, the Corporation shall mail to holders of record of the Convertible Preferred Stock a notice of the reduction at least fifteen days prior to the date the reduced conversion price takes effect, and such notice shall state the reduced conversion price and the period it will be in effect.

(d) *No Fractional Shares.* No fractional shares of Common Stock shall be issued upon conversion of Convertible Preferred Stock. If more than one certificate evidencing shares of Convertible Preferred Stock shall be surrendered for conversion at one time by the same holder, the number of full shares issuable upon conversion thereof shall be computed on the basis of the aggregate number of shares of Convertible Preferred Stock so surrendered. Instead of any fractional share of Common Stock that would otherwise be issuable to a holder upon conversion of any shares of Convertible Preferred Stock, the Corporation shall pay a cash adjustment in respect of such fractional share in an amount equal to the same fraction of the market price per share of Common Stock (as determined by the Board of Directors or in any manner prescribed by the Board of Directors, which, so long as the Common Stock is listed on the New York Stock Exchange, shall be the reported last sale price regular way on the New York Stock Exchange) at the close of business on the day of conversion.

(e) *Reclassification, Consolidation, Merger or Sale of Assets.* In the event that the Corporation shall be a party to any transaction (including without limitation any recapitalization or reclassification of the Common Stock (other than a change in par value, or from par value to no par value, or from no par value to par value, or as a result of a subdivision or combination of the Common Stock), any consolidation of the Corporation with, or merger of the Corporation into, any other person, any merger of another person into the Corporation (other than a merger which does not result in a reclassification, conversion, exchange or cancellation of outstanding shares of Common Stock of the Corporation), any sale or transfer of all or substantially all of the assets of the Corporation or any share exchange) pursuant to which the Common Stock is converted into the right to receive other securities, cash or other property, then lawful provisions shall be made as part of the terms of such transaction whereby the holder of each share of Convertible Preferred Stock then outstanding shall have the right thereafter to convert such share only into (i) in the case of any such transaction other than a Common Stock Fundamental Change and subject to funds being legally available for such purpose under applicable law at the time of such conversion, the kind and amount of securities, cash and other property receivable upon such transaction by a holder of the number of shares of Common Stock of the Corporation into which such share of Convertible Preferred Stock might have been converted immediately prior to such transaction, after giving effect, in the case of any Non-Stock Fundamental Change, to any adjustment in the conversion price required by the provisions of Section VI(h), and (ii) in the case of a Common Stock Fundamental Change, common stock of the kind received by holders of Common Stock as a result of such Common Stock Fundamental Change in an amount determined pursuant to the provisions of Section VI(h). The Corporation or the person formed by such consolidation or resulting from such merger or which acquires such assets or which acquires the Corporation's shares, as the case may be, shall make provisions in its certificate or articles of incorporation or other constituent document to

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establish such right. Such certificate or articles of incorporation or other constituent document shall provide for adjustments which, for events subsequent to the effective date of such certificate or articles of incorporation or other constituent document, shall be as nearly equivalent as may be practicable to the adjustments provided for in this Section VI. The above provisions shall similarly apply to successive transactions of the foregoing type.

(f) *Reservation of Shares; Etc.* The Corporation shall at all times reserve and keep available, free from preemptive rights out of its authorized and unissued stock, solely for the purpose of effecting the conversion of the Convertible Preferred Stock, such number of shares of its Common Stock as shall from time to time be sufficient to effect the conversion of all shares of Convertible Preferred Stock from time to time outstanding. The Corporation shall from time to time, in accordance with the laws of the Commonwealth of Kentucky, in good faith and as expeditiously as possible endeavor to cause the authorized number of shares of Common Stock to be increased if at any time the number of shares of authorized and unissued Common Stock shall not be sufficient to permit the conversion of all the then-outstanding shares of Convertible Preferred Stock.

If any shares of Common Stock required to be reserved for purposes of conversion of the Convertible Preferred Stock hereunder require registration with or approval of any governmental authority under any Federal or State law before such shares may be issued upon conversion, the Corporation will in good faith and as expeditiously as possible endeavor to cause such shares to be duly registered or approved as the case may be. If the Common Stock is listed on the New York Stock Exchange or any other national securities exchange, the Corporation will, if permitted by the rules of such exchange, list and keep listed on such exchange, upon official notice of issuance, all shares of Common Stock issuable upon conversion of the Convertible Preferred Stock.

(g) *Prior Notice of Certain Events.* In case:

(i) the Corporation shall (1) declare any dividend (or any other distribution) on its Common Stock, other than (A) a dividend payable in shares of Common Stock or (B) a dividend payable in cash out of its retained earnings other than any special or nonrecurring or other extraordinary dividend or (2) declare or authorize a redemption or repurchase of in excess of 10% of the then-outstanding shares of Common Stock; or

(ii) the Corporation shall authorize the granting to all holders of Common Stock of rights or warrants to subscribe for or purchase any shares of stock of any class or series or of any other rights or warrants; or

(iii) of any reclassification of Common Stock (other than a subdivision or combination of the outstanding Common Stock, or a change in par value, or from par value to no par value, or from no par value to par value), or of any consolidation or merger to which the Corporation is a party and for which approval of any shareholders of the Corporation shall be required, or of the sale or transfer of all or substantially all of the assets of the Corporation or of any share exchange whereby the Common Stock is converted into other securities, cash or other property; or

(iv) of the voluntary or involuntary dissolution, liquidation or winding up of the Corporation;

then the Corporation shall cause to be filed with the transfer agent for the Convertible Preferred Stock, and shall cause to be mailed to the holders of record of the Convertible Preferred Stock, at their last addresses as they shall appear upon the stock transfer books of the Corporation, at least fifteen days prior to the applicable record or effective date hereinafter specified, a notice stating (x) the date on which a record (if any) is to be taken for the purpose of such dividend, distribution, redemption, repurchase, rights or warrants or, if a record is not to be taken, the date as of which the holders of Common Stock of record to be entitled to such dividend, distribution, redemption, rights or warrants are to be determined or (y) the date on which such reclassification, consolidation, merger, sale, transfer, share exchange, dissolution, liquidation or winding up is expected to become effective, and the date as of which it is expected that holders of Common Stock of record shall be entitled to exchange their shares of Common Stock for securities, cash or other property deliverable upon such reclassification, consolidation, merger, sale, transfer, share exchange, dissolution, liquidation or winding up (but no failure to mail such notice or any defect therein or in the mailing thereof shall affect the validity of the corporate action required to be specified in such notice).

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(h) *Adjustments in Case of Fundamental Changes.* Notwithstanding any other provision in this Section VI to the contrary, if any Fundamental Change (as defined in Section VI(i) occurs, then the conversion price in effect will be adjusted immediately after such Fundamental Change as described below. In addition, in the event of a Common Stock Fundamental Change (as defined in Section VI(i), each share of Convertible Preferred Stock shall be convertible solely into common stock of the kind received by holders of Common Stock as the result of such Common Stock Fundamental Change.

For purposes of calculating any adjustment to be made pursuant to this Section VI(h) in the event of a Fundamental Change, immediately after such Fundamental Change:

(i) in the case of a Non-Stock Fundamental Change (as defined in Section VI(i)), the conversion price of the Convertible Preferred Stock shall thereupon become the lower of (A) the conversion price in effect immediately prior to such Non-Stock Fundamental Change, but after giving effect to any other prior adjustments effected pursuant to this Section VI, and (B) the result obtained by multiplying the greater of the Applicable Price (as defined in Section VI(i)) or the then applicable Reference Market Price (as defined in Section VI(i)) by a fraction of which the numerator shall be $50 and the denominator shall be (x) the then-current Redemption Price per share of Convertible Preferred Stock or (y) for any Non-Stock Fundamental Change that occurs before the Convertible Preferred Stock becomes redeemable by the Corporation pursuant to Section V, the applicable price per share set forth for the date of such Non-Stock Fundamental Change in the following table:

Date of Non-Stock Fundamental Change	Price
After date of original issuance of Convertible Preferred Stock and on or before March 14, 1994	$53.13
After March 14, 1994 and on or before March 14, 1995	$52.81
After March 14, 1995 and on or before March 14, 1996	$52.50
After March 14, 1996 and on or before March 24, 1997	$52.19

plus, in any case referred to in this clause (y), an amount equal to all per share dividends on the Convertible Preferred Stock accrued and unpaid thereon, whether or not declared, to but excluding the date of such Non-Stock Fundamental Change; and

(ii) in the case of a Common Stock Fundamental Change, the conversion price of the Convertible Preferred Stock in effect immediately prior to such Common Stock Fundamental Change, but after giving effect to any other prior adjustments effected pursuant to this Section VI, shall thereupon be adjusted by multiplying such conversion price by a fraction of which the numerator shall be the Purchaser Stock Price (as defined in Section VI(i)) and the denominator shall be the Applicable Price; *provided, however*, that in the event of a Common Stock Fundamental Change in which (A) 100% by value of the consideration received by a holder of Common Stock is common stock of the successor, acquiror or other third party (and cash, if any, is paid with respect to any fractional interests in such common stock resulting from such Common Stock Fundamental Change) and (B) all of the Common Stock shall have been exchanged for, converted into or acquired for common stock (and cash with respect to fractional interests) of the successor, acquiror or other third party, the conversion price of the Convertible Preferred Stock in effect immediately prior to such Common Stock Fundamental Change shall thereupon be adjusted by multiplying such conversion price by a fraction of which the numerator shall be one (1) and the denominator shall be the number of shares of common stock of the successor, acquiror, or other third party received by a holder of one share of Common Stock as a result of such Common Stock Fundamental Change.

(i) *Definitions.* The following definitions shall apply to terms used in this Section VI:

(1) "Applicable Price" shall mean (i) in the event of a Non-Stock Fundamental Change in which the holders of the Common Stock receive only cash, the amount of cash received by the holder of one share of Common Stock and (ii) in the event of any other Non-Stock Fundamental Change or any Common Stock Fundamental Change, the average of the daily Closing Prices of the Common Stock for the ten consecutive

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Trading Days prior to and including the record date for the determination of the holders of Common Stock entitled to receive cash, securities, property or other assets in connection with such Non-Stock Fundamental Change or Common Stock Fundamental Change, or, if there is no such record date, the date upon which the holders of the Common Stock shall have the right to receive such cash, securities, property or other assets, in each case, as adjusted in good faith by the Board of Directors of the Corporation to appropriately reflect any of the events referred to in subparagraphs (i), (ii), (iii), (iv) and (v) of Section VI(c).

(2) "Closing Price" of any common stock on any day shall mean the last reported sale price regular way on such day or, in case no such sale takes place on such day, the average of the reported closing bid and asked prices regular way of the common stock in each case on the New York Stock Exchange, or, if the common stock is not listed or admitted to trading on such Exchange, on the principal national securities exchange or quotation system on which the common stock is listed or admitted to trading or quoted, or, if not listed or admitted to trading or quoted on any national securities exchange or quotation system, the average of the closing bid and asked prices of the common stock in the over-the-counter market on the day in question as reported by the National Quotation Bureau Incorporated, or a similarly generally accepted reporting service, or, if not so available in such manner, as furnished by any New York Stock Exchange member firm selected from time to time by the Board of Directors of the Corporation for that purpose.

(3) "Common Stock Fundamental Change" shall mean any Fundamental Change in which more than 50% by value (as determined in good faith by the Board of Directors of the Corporation) of the consideration received by holders of Common Stock consists of common stock that for each of the ten consecutive Trading Days referred to with respect to such Fundamental Change in Section VI(i)(1) above has been admitted for listing or admitted for listing subject to notice of issuance on a national securities exchange or quoted on the National Association of Securities Dealers Automated Quotation ("NASDAQ") National Market System; *provided, however*, that a Fundamental Change shall not be a Common Stock Fundamental Change unless either (i) the Corporation continues to exist after the occurrence of such Fundamental Change and the outstanding shares of Convertible Preferred Stock continue to exist as outstanding shares of Convertible Preferred Stock, or (ii) not later than the occurrence of such Fundamental Change, the outstanding shares of Convertible Preferred Stock are converted into or exchanged for shares of convertible preferred stock of a corporation succeeding to the business of the Corporation, which convertible preferred stock has powers, preferences and relative, participating, optional or other rights, and qualifications; limitations and restrictions, substantially similar to those of the Convertible Preferred Stock.

(4) "Fundamental Change" shall mean the occurrence of any transaction or event in connection with a plan pursuant to which all or substantially all of the Common Stock shall be exchanged for, converted into, acquired for or constitute solely the right to receive cash, securities, property or other assets (whether by means of an exchange offer, liquidation, tender offer, consolidation, merger, combination, reclassification, recapitalization or otherwise); *provided, however*, in the case of a plan involving more than one such transaction or event, for purposes of adjustment of the conversion price, such Fundamental Change shall be deemed to have occurred when substantially all of the Common Stock of the Corporation shall be exchanged for, converted into, or acquired for or constitute solely the right to receive cash, securities, property or other assets, but the adjustment shall be based upon the highest weighted average of consideration per share which a holder of Common Stock could have received in such transactions or events as a result of which more than 50% of the Common Stock of the Corporation shall have been exchanged for, converted into, or acquired for or constitute solely the right to receive cash, securities, property or other assets.

(5) "Non-Stock Fundamental Change" shall mean any Fundamental Change other than a Common Stock Fundamental Change.

(6) "Purchaser Stock Price" shall mean, with respect to any Common Stock Fundamental Change, the average of the daily Closing Prices of the Common Stock received in such Common Stock Fundamental Change for the ten consecutive Trading Days prior to and including the record date for the determination of the holders of the Common Stock entitled to receive such common stock, or, if there is no such record date,

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the date upon which the holders of the Common Stock shall have the right to receive such common stock, in each case, as adjusted in good faith by the Board of Directors of the Corporation to appropriately reflect any of the events referred to in subparagraphs (i), (ii), (iii), (iv) and (v) of Section VI(c); *provided, however*, if no such Closing Prices of the common stock for such Trading Days exist, then the Purchaser Stock Price shall be set at a price determined in good faith by the Board of Directors of the Corporation.

(7) "Reference Market Price" shall initially mean $17.25 (which is an amount equal to 662/3% of the reported last sale price for the Common Stock on the New York Stock Exchange on May 13, 1993), and in the event of any adjustment to the conversion price other than as a result of a Fundamental Change, the Reference Market Price shall also be adjusted so that the ratio of the Reference Market Price to the conversion price after giving effect to any such adjustment shall always be the same as the ratio of $17.25 to the initial conversion price per share set forth in the last sentence of Section VI(a).

(8) "Trading Day" shall mean a day on which securities traded on the national securities exchange or quotation system or in the over-the-counter market used to determine the Closing Price.

(j) *Dividend or Interest Reinvestment Plans.* Notwithstanding the foregoing provisions, the issuance of any shares of Common Stock pursuant to any plan providing for the reinvestment of dividends or interest payable on securities of the Corporation and the investment of additional optional amounts in shares of Common Stock under any such plan, and the issuance of any shares of Common Stock or options or rights to purchase such shares pursuant to any employee benefit plan or program of the Corporation or pursuant to any option, warrant, right or exercisable, exchangeable or convertible security outstanding as of the date the Convertible Preferred Stock was first designated (except as expressly provided in Section VI(c)(1) or VI(c)(ii) with respect to certain events under the Rights Agreement), and any issuance of Rights (as hereinafter defined), shall not be deemed to constitute an issuance of Common Stock or exercisable, exchangeable or convertible securities by the Corporation to which any of the adjustment provisions described above applies. There shall also be no adjustment of the conversion price in case of the issuance of any stock (or securities convertible into or exchangeable for stock) of the Corporation except as specifically described in this Section VI. If any action would require adjustment of the conversion price pursuant to more than one of the provisions described above, only one adjustment shall be made and such adjustment shall be the amount of adjustment which has the highest absolute value to holders of Convertible Preferred Stock.

(k) *Preferred Share Purchase Rights.* So long as Preferred Share Purchase Rights of the kind declared and distributed by the Corporation's Board of Directors in May 1986, as the same have been and may hereafter be amended ("Rights"), are attached to the outstanding shares of Common Stock of the Corporation, each share of Common Stock issued upon conversion of the shares of Convertible Preferred Stock prior to the earliest of any Distribution Date (as defined in the Rights Agreement), the date of redemption of the Rights or the date of expiration of the Rights shall be issued with Rights in an amount equal to the amount of Rights then attached to each such outstanding share of Common Stock.

(l) *Certain Additional Rights.* In case the Corporation shall, by dividend or otherwise, declare or make a distribution on its Common Stock referred to in Section VI(c)(iv) or VI(c)(v) (including, without limitation, dividends or distributions referred to in the last sentence of Section VI(c)(iv)), the holder of each share of Convertible Preferred Stock, upon the conversion thereof subsequent to the close of business on the date fixed for the determination of shareholders entitled to receive such distribution and prior to the effectiveness of the conversion price adjustment in respect of such distribution, shall also be entitled to receive for each share of Common Stock into which such share of Convertible Preferred Stock is converted, the portion of the shares of Common Stock, rights, warrants, evidences of indebtedness, shares of capital stock, cash and assets so distributed applicable to one share of Common Stock; *provided, however*, that, at the election of the Corporation (whose election shall be evidenced by a resolution of the Board of Directors) with respect to all holders so converting, the Corporation may, in lieu of distributing to such holder any portion of such distribution not consisting of cash securities of the Corporation, pay such holder an amount in cash equal to the fair market value thereof (as determined in good faith by the Board of Directors, whose determination shall be conclusive and

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described in a resolution of the Board of Directors). If any conversion of a share of Convertible Preferred Stock described in the immediately preceding sentence occurs prior to the payment date for a distribution to holders of Common Stock which the holder of the share of Convertible Preferred Stock so converted is entitled to receive in accordance with the immediately preceding sentence, the Corporation may elect (such election to be evidenced by a resolution of the Board of Directors) to distribute to such holder a due bill for the shares of Common Stock, rights, warrants, evidences of indebtedness, shares of capital stock, cash or assets to which such holder is so entitled, provided that such due bill (i) meets any applicable requirements of the principal national securities exchange or other market on which the Common Stock is then traded and (ii) requires payment or delivery of such shares of Common Stock, rights, warrants, evidences of indebtedness, shares of capital stock, cash or assets no later than the date of payment or delivery thereof to holders of shares of Common Stock receiving such distribution.

VII. *Voting Rights.*

(a) *General.* The holders of shares of Convertible Preferred Stock shall not have any voting rights except as set forth below or as otherwise from time to time required by law. In connection with any right to vote, each holder of a share of Convertible Preferred Stock shall have one vote for each share held. Any shares of Convertible Preferred Stock owned, directly or indirectly, by any entity of which the Corporation owns, directly or indirectly, a majority of the shares entitled to vote for directors, shall not have voting rights hereunder and shall not be counted in determining the presence of a quorum.

(b) *Default Voting Rights.* Whenever dividends on the Convertible Preferred Stock or any other class or series of Parity Dividend Stock shall be in arrears in an aggregate amount equal to at least six quarterly dividends (whether or not consecutive), (i) the number of members of the Board of Directors of the Corporation shall be increased by two, effective as of the time of election of such directors as hereinafter provided and (ii) the holders of shares of Convertible Preferred Stock (voting separately as a class with all other affected classes or series of Parity Dividend Stock upon which like voting rights have been conferred and are exercisable) shall have the exclusive right to vote for and elect such two additional directors of the Corporation who shall continue to serve during the period such dividends remain in arrears. The right of the holders of shares of Convertible Preferred Stock to vote for such two additional directors shall terminate when all accrued and unpaid dividends on the Convertible Preferred Stock and all other affected classes or series of Parity Dividend Stock have been declared and paid or set apart for payment. The term of office of all directors so elected shall terminate immediately upon the termination of the right of the holders of shares of Convertible Preferred Stock and such Parity Dividend Stock to vote for such two additional directors, and the number of directors of the Board of Directors of the Corporation shall immediately thereafter be reduced by two.

The foregoing right of the holders of shares of Convertible Preferred Stock with respect to the election of two directors may be exercised at any annual meeting of shareholders or at any special meeting of shareholders held for such purpose. If the right to elect directors shall have accrued to the holders of shares of Convertible Preferred Stock more than ninety days preceding the date established for the next annual meeting of stockholders, the President of the Corporation shall, within twenty days after the delivery to the Corporation at its principal office of a written request for a special meeting signed by the holders of at least 10% of all outstanding shares of Convertible Preferred Stock, call a special meeting of the holders of Convertible Preferred Stock to be held within sixty days after the delivery of such request for the purpose of electing such additional directors.

The holders of shares of Convertible Preferred Stock and any Parity Dividend Stock referred to above voting as a class shall have the right to remove without cause at any time and replace any directors such holders shall have elected pursuant to this Section VII.

VIII. *Outstanding Shares.* For purposes of this amendment, all shares of Convertible Preferred Stock issued by the Corporation shall be deemed outstanding, all shares of Convertible Preferred Stock issued by the Corporation shall be deemed outstanding except (i) from the date fixed for redemption pursuant to Section V, all shares of Convertible Preferred Stock that have been so called for redemption under Section V, to the extent

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provided thereunder; (ii) from the date of surrender of certificates evidencing shares of Convertible Preferred Stock, all shares of Convertible Preferred Stock converted into Common Stock; and (iii) from the date of registration of transfer, all shares of Convertible Preferred Stock owned, directly or indirectly, by any entity of which the Corporation owns, directly or indirectly, a majority of the shares entitled to vote for directors.

IX. *Partial Payments.* Upon an optional redemption by the Corporation, if at any time the Corporation does not pay amounts sufficient to redeem all Convertible Preferred Stock, then such funds which are paid shall be applied to redeem such shares of Convertible Preferred Stock as the Corporation may designate by lot or in such other manner as the Board of Directors may determine to be fair, or such redemption shall be effected pro rata.

X. *Severability of Provisions.* Whenever possible, each provision hereof shall be interpreted in a manner as to be effective and valid under applicable law, but if any provision hereof is held to be prohibited by or invalid under applicable law, such provision shall be ineffective only to the extent of such prohibition or invalidity, without invalidating or otherwise adversely affecting the remaining provisions hereof. If a court of competent jurisdiction should determine that a provision hereof would be valid or enforceable if a period of time were extended or shortened or a particular percentage were increased or decreased, then such court may make such change as shall be necessary to render the provision in question effective and valid under applicable law.

XI. *Miscellaneous.* (a) The Corporation shall pay any and all stock transfer and documentary stamp taxes that may be payable in respect of any issuance or delivery of shares of Convertible Preferred Stock or shares of Common Stock or other securities issued on account of Convertible Preferred Stock pursuant hereto or certificates or instruments evidencing such shares or securities. The Corporation shall not, however, be required to pay any such tax which may be payable in respect of any transfer involved in the issuance or delivery of shares of Convertible Preferred Stock or Common Stock or other securities in a name other than that in which the shares of Convertible Preferred Stock with respect to which such shares or other securities are issued or delivered were registered, or in respect of any payment to any person with respect to any such shares or securities other than a payment to the registered holder thereof, and shall not be required to make any such issuance, delivery or payment unless and until the person otherwise entitled to such issuance, delivery or payment has paid to the Corporation the amount of any such tax or has established, to the satisfaction of the Corporation, that such tax has been paid or is not payable.

(b) In the event that a holder of shares of Convertible Preferred Stock shall not by written notice designate the name in which shares of Common Stock to be issued upon conversion of such shares should be registered or to whom payment upon redemption of shares of Convertible Preferred Stock should be made or the address to which the certificates or instruments evidencing such shares or such payment, should be sent, the Corporation shall be entitled to register such shares and make such payment, in the name of the holder of such Convertible Preferred Stock as shown on the records of the Corporation and to send the certificates or instruments evidencing such shares or such payment, to the address of such holder shown on the records of the Corporation.

Third: The amendment was adopted on March 18, 1993.

Fourth: The amendment was duly adopted by the Board of Directors.

ASHLAND OIL, INC.

Paul W. Chellgren
President

COMMONWEALTH OF KENTUCKY)
COUNTY OF GREENUP)

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The foregoing instrument was acknowledged before me this 17th day of May, 1993, by Paul W. Chellgren, President of ASHLAND OIL, INC., a Kentucky corporation, on behalf of the corporation.

Mary E. Mell
Notary Public

MARY E. MELL
My commission expires July 2, 1994

Prepared by Thomas L. Feazell
1000 Ashland Drive
Russell, Kentucky 41114

Thomas L. Feazell

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LODGED FOR RECORD ON
THE 18 DAY OF May
1993 AT 3:45 P M RECORDED
IN Out of Inc BOOK
NO. 12 J PAGE 322
TAX $ FEES $ 23.50
DONALD L. DAVIDSON, CLERK
GREENUP COUNTY
BY J Thompson D.C.

No
LODGED FOR RECORD
On the 18 day of May
1993 at 3:45P recorded
In Out of Inc. Book
No. 30 Page 59

RECEIVED & FILED
$40.00
JAN 27 8 54 AM '95
STATE
COPY

ARTICLES OF AMENDMENT TO SECOND RESTATED ARTICLES OF INCORPORATION OF ASHLAND OIL, INC.

AMENDMENT NO. 4

Pursuant to the provisions of Section 271B.10-060 of the Kentucky Business Corporation Act, the undersigned corporation adopts the following articles of amendment to its Second Restated Articles of Incorporation:

First: The name of the corporation is Ashland Oil, Inc.

Second: At a meeting of the Board of Directors held on November 3, 1994, the Board of Directors proposed that the Second Restated Articles of Incorporation be amended by substituting a new Article I for the existing Article I, and directed that the proposed amendment be submitted to the shareholders with the affirmative recommendation of the Board of Directors at a meeting of the corporation's shareholders to be held on January 26, 1995 (the "Meeting"), which Meeting was duly called upon notice of the specific purpose. The text of the new Article I is as follows:

ARTICLE I

The name of the corporation is Ashland Inc. (hereinafter called the "Company" or the "Corporation").

Third: There were 60,754,474 shares of Ashland Oil, Inc. Common Stock, each of which was entitled to cast one vote, outstanding at November 28, 1994, the record date for the Meeting, which represent all of the shares entitled to vote on such amendment.

Fourth: There were 52,983,021 shares of Ashland Oil, Inc. Common Stock indisputably represented at the Meeting.

Fifth: The total number of undisputed votes cast for such amendment was 51,239,239 and the total number of votes cast against such amendment was 1,370,949. The number of votes cast for the amendment was sufficient for approval.

Sixth: The amendment will become effective at 4:00 p.m. on January 27, 1995.

ASHLAND OIL, INC.

By: Paul W. Chellgren

Paul W. Chellgren
President

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Commonwealth of Kentucky)
County of Greenup)

The foregoing instrument was acknowledged before me this 27th day of January, 1995, by Paul W. Chellgren, President of Ashland Oil, Inc., a Kentucky corporation, on behalf of the corporation.

Teresa F. Gabbard

Notary Public

TERESA F. GABBARD
My commission expires October 9, 1997

Prepared by Thomas L. Feazell
1000 Ashland Drive
Russell, Kentucky 41169

Thomas L. Feazell

DOCUMENT NO: 440448
RECORDED ON JANUARY 27, 1995 12:58:53PM
TOTAL FEES: $9.00
COUNTY CLERK: MAXINE SELBEE
COUNTY: BOYD COUNTY
DEPUTY CLERK: GAIL BOGGS

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THE 27 DAY OF Jan
19 95 AT 1:45 P M RECORDED
IN Art of Inc BOOK
NO. 13 PAGE 147
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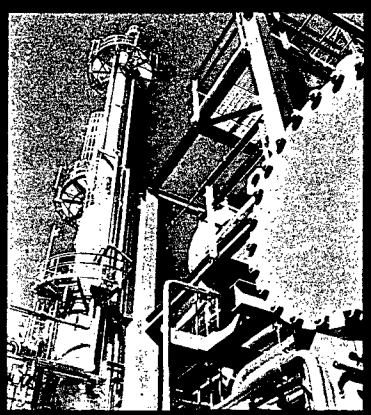
DONALD L. DAVIDSON, CLERK
GREENUP COUNTY
BY Jan Burnett D.C.

ASHLAND OIL, INC.

A WORLDWIDE ENERGY AND CHEMICAL COMPANY

1994 ANNUAL REPORT

Leveraging traditional strengths for profitable growth



TECHNOLOGICAL LEADERSHIP

MARKETING AND DISTRIBUTION

CUSTOMER SERVICE

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Corporate Profile

Ashland Oil, Inc.

Ashland is a worldwide energy and chemical company providing quality products to a broad array of industrial and retail customers. The 49th largest U.S. industrial company in revenues, Ashland is based in Russell, Ky., and employs approximately 31,600 people.

Ashland serves its customers through six wholly owned operating units and two partially owned coal companies. Each operation embodies Ashland's traditional strengths of technological leadership, marketing and distribution expertise, and superior customer service. Important strategic, financial and operating links between these businesses create further value for Ashland's shareholders.

Ashland is one of the nation's largest independent refiners; a leading independent crude oil gatherer and marketer; a regional retail marketer of gasoline and merchandise; and a top U.S. motor oil and automotive chemical marketer with a growing international presence.

In addition, Ashland is the largest distributor of chemicals and plastics in North America; a leading supplier of specialty chemicals worldwide; the nation's largest highway contractor; and a producer of natural gas and crude oil. Ashland also has equity positions in two large coal companies, the combined annual production of which would rank among the nation's top coal producers.

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1994 Achievements and Financial Highlights

Ashland Oil, Inc.

Achievement No. 1
Aggregate pre-tax income from related energy and chemical businesses reached its highest level ever.

Achievement No. 2
Petroleum company earnings more than doubled despite lower average margins for the industry overall.

Achievement No. 3
Return on equity improved to 14.5 percent, compared to 12.1 percent last year.

Achievement No. 4
Debt as a percent of total capitalization declined from 51 percent to 48 percent.

Achievement No. 5
Net free cash flow improved, as cash flow from operations exceeded capital expenditures by $78 million.

Achievement No. 6
The quarterly cash dividend on Ashland common stock increased 10 percent, effective December 15.

Achievement No. 7
Ashland Chemical and the APAC highway construction group achieved record earnings.

Achievement No. 8
The completion of a corporate-wide review of general and administrative expenses should yield $30 million in annual savings.

Years Ended September 30

(Dollars in millions except per share data)	1994	1993	1992
Sales and operating revenues (including excise taxes)	$10,334	$10,199	$10,211
Operating income (loss)[1]	$ 367	$ 297	$ (63)
Net income (loss)[1]			
Income (loss) before the cumulative effect of accounting changes	$ 197	$ 142	$ (68)
Cumulative effect of accounting changes	–	–	(268)
Net income (loss)	$ 197	$ 142	$ (336)
Primary earnings (loss) per share			
Income (loss) before the cumulative effect of accounting changes	$ 2.94	$ 2.26	$ (1.18)
Cumulative effect of accounting changes	–	–	(4.57)
Net income (loss)	$ 2.94	$ 2.26	$ (5.75)
Common dividends per share	$ 1.00	$ 1.00	$ 1.00
Book value per common share[2]	$ 22.00	$ 20.01	$ 19.08
Return on average common stockholders' equity[3]	14.5%	12.1%	(6.0)%
Cash flows from operations	$ 454	$ 250	$ 398
Additions to property, plant and equipment	$ 376	$ 432	$ 504
Number of employees	31,600	31,800	33,700
Number of common stockholders of record	25,500	26,600	27,800

(1) See Management's Discussion and Analysis on pages 34 to 40 for a discussion of unusual items.
(2) Excludes effect of loan and prepaid contribution to leveraged employee stock ownership plan on common stockholders' equity.
(3) Excludes the cumulative effect of accounting changes in 1992.

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To Our Shareholders:

A letter from Ashland's chairman

Ashland's excellent performance in fiscal 1994 demonstrates two important facts: Our strategy to build a balanced business portfolio is working, and our traditional strengths will drive future growth while adding value for our shareholders.

By almost any measure, fiscal 1994 was a very good year.

Net income increased substantially — to $197 million, or $2.94 a share. That compares to $142 million, or $2.26 a share, for fiscal 1993.

The balance sheet grew stronger. Debt declined by $34 million, while equity increased by $140 million. At September 30, total debt accounted for 48 percent of total capitalization — down from 51 percent a year ago and about 60 percent at the end of fiscal 1992.

Cash flow improved. Discretionary cash flow registered a positive swing of $260 million, as cash flows from operations exceeded capital expenditures by $78 million. This is a major improvement over 1993 when a heavy capital investment program and working capital needs resulted in net cash consumption of $182 million.

Capital spending declined to $376 million, reflecting reductions in capital spending for our refineries.

Return on equity improved. ROE for 1994 was 14.5 percent, compared to 12.1 percent for 1993. In addition, fiscal 1994's average total return to shareholders, defined as stock price appreciation plus dividends, was 7.4 percent. Although down from 1993, this compared very favorably to estimated returns of 0.1 percent for our peer refining group and 3.7 percent for both a group of major oil companies and the S&P 500 during the same period.

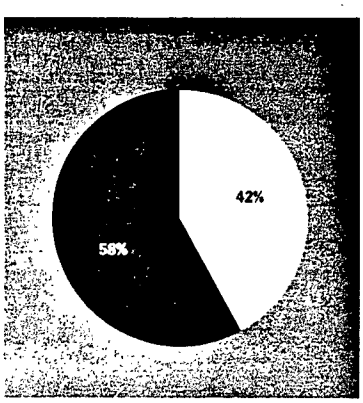
The dividend on our common stock increased 10 percent. At its November meeting, our board of directors increased the quarterly cash dividend on our common stock by 2.5 cents a share to 27.5 cents a share. We were pleased to be able to take this action on your behalf.

We successfully completed a corporatewide review of general and administrative expenses that should result in $30 million in annual savings. It will take a couple of years to realize all of the savings, which involve improve-

1994 Net Assets

☐ Refining and wholesale marketing

■ Related energy and chemical businesses

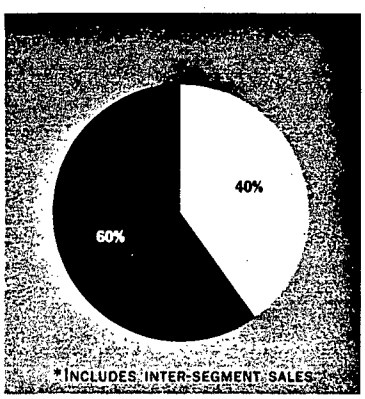


Ashland will capitalize on an improving free cash flow position by substantially increasing its investment in related energy and chemical lines.

1994 Sales and Operating Revenues*

☐ Refining and wholesale marketing

■ Related energy and chemical businesses

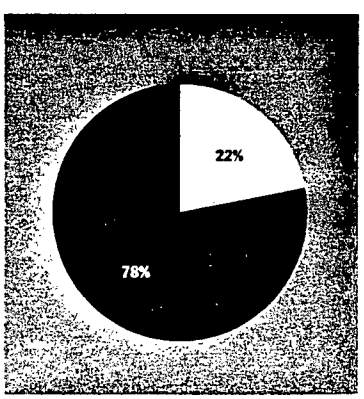


Refining remains a large and central part of the corporation's operating strategy, providing powerful earnings potential during periods of market strength.

Operating and Equity Income, 1990-1994

☐ Refining and wholesale marketing

■ Related energy and chemical businesses



Already the source of the majority of Ashland's pre-tax income, related energy and chemical businesses will create further value as the investment in them grows.

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ments at both the corporate and division levels.

In addition to these key financial improvements, it was a very good year for most of our operations. Operating income from Ashland Petroleum Company more than doubled. At the same time, results from related energy and chemical businesses climbed 10 percent and accounted for 75 percent of total operating and equity income.

Moreover, we were pleased to have Mannie L. Jackson, senior vice president of Honeywell, Inc., join our board of directors in May.

JOHN R. HALL
CHAIRMAN OF THE BOARD
AND CHIEF EXECUTIVE
OFFICER

OUR STRATEGY IS WORKING

We believe Ashland's 1994 performance demonstrates our strategy is working.

Since 1982, we have pursued a dual strategy aimed at maintaining a strong competitive position in petroleum refining and wholesale marketing while pursuing growth in our related energy and chemical businesses.

While the refining industry offers tremendous upside potential when refinery margins are attractive, volatility in commodity markets is often reflected in these margins. Consequently, we have sought to balance that risk with an increasingly important portfolio of related energy and chemical businesses so we can offer our shareholders a stronger and more consistent return.

Our six related energy and chemical businesses are Ashland Chemical, SuperAmerica, Valvoline, the APAC highway construction group, Ashland Exploration and our coal investments. Together, these businesses provide a large, stable and growing base of earnings. Over the past five years, for example, these businesses have contributed 78 percent of total operating and equity income.

SOURCES OF VALUE CREATION

Along with our refining operations, these businesses allow us to capitalize upon our traditional strengths in technology, marketing and distribution, and superior customer service. These strengths, in fact, are the hallmarks of all our businesses and will serve in large part as the basis for future capital investment as we seek further value creation and profit growth.

We believe our performance in 1994 is a good indication of the ability of our businesses to reach these goals.

Looking forward to 1995, about 61 percent of our $425 million capital spending budget will be devoted to opportunities in our related energy and chemical businesses.

For example, Ashland Chemical, our largest contributor to earnings in 1994, will pursue growth in existing lines of business, capitalizing on its market-leading positions and growing demand for many of its products. The chemical company will seek to improve and solidify these positions through related acquisitions. APAC, which had the highest return on investment of all our businesses in 1994, will follow a similar strategy.

SuperAmerica plans to add 200 stores over the next five years in markets directly supplied by Ashland Petroleum. Valvoline will capitalize on its well-known brand and quality image and use existing strengths in distribution to increase sales of related products, such as the recently

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acquired Zerex® antifreeze brand. Valvoline is also expanding internationally.

In the United States, Ashland Exploration plans an aggressive natural gas drilling program and continues to evaluate potential natural gas property acquisitions. The exploration company had an encouraging crude oil discovery offshore Nigeria in 1994 and plans to drill at least two more wells in the area in 1995.

Both Ashland Coal and Arch Mineral, in which we have large equity positions, have substantial reserves of low-sulfur coal, a major advantage as the acid-rain provisions of the Clean Air Act take effect in 1995. In fact, we believe their combined reserves represent perhaps the best base of low-sulfur coal in the Eastern United States, while their combined annual output of over 40 million tons would rank among the nation's largest coal producers.

We believe our related energy and chemical businesses continue to offer strong potential for future value creation. As our investment in them grows, they should become even stronger contributors to earnings.

Refining to Remain a Cornerstone

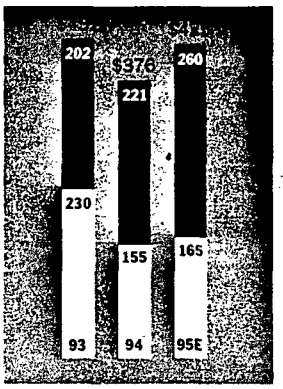
Despite the growing significance of our related energy and chemical businesses, we continue to recognize the value and potential of our refining and wholesale marketing operations. Ashland Petroleum remains a cornerstone of our strategy.

Judging from its 1994 performance, it is easy to understand why. Ashland Petroleum outperformed the industry despite a very difficult competitive environment. In a year when refinery margins in the Gulf Coast and New York reference markets declined by well over 30 cents a barrel, Ashland Petroleum's refinery margins increased by 79 cents a barrel.

Paul W. Chellgren
President and
Chief Operating Officer

This improvement is due in part to the restoration of the traditional advantage Midwest markets have over the Gulf Coast and New York Harbor. But we also believe it's a good demonstration of our own considerable strengths in refining — such as our ability to create value from the bottom of the barrel through a significant upgrading capability and asphalt sales. Moreover, it also reflects the steps we have taken in the past few years to improve crude oil selection and strengthen our overall competitive position.

Capital Expenditures
(in millions)
■ Related energy and chemical businesses
□ Refining and wholesale marketing



Looking ahead, we intend to maintain capital investments in Ashland Petroleum in line with its annual depreciation for the next several years. We plan to invest about $165 million in the petroleum company in 1995. These investments will be aimed at upgrading refinery streams to add still more value to the oil we process. We also plan to improve Ashland Petroleum's marketing and transportation facilities — all in pursuit of a stronger competitive position.

Economic and Industry Outlook

The U.S. economy — and to a growing extent the global economic picture — can be a major determinant of our performance. We expect the current recovery in the U.S. economy to be sustained. In addition, there is evidence that our Midwestern markets are growing faster than the domestic economy as a whole. Moreover, a growing world economy should benefit Valvoline's and

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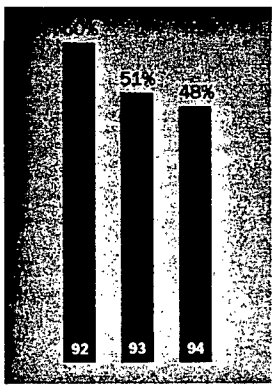
Ashland Chemical's international operations. Increasing world demand for petroleum products also should help improve domestic refinery margins by tightening the world supply and demand balance. At the same time, we expect the price of crude oil to remain in the range of $18- to $20-a-barrel in the near term. However, new regulations requiring tanker owners to demonstrate increased financial responsibility for spills could tighten the domestic crude oil market.

U.S. refinery margins also should benefit from developments in U.S. petroleum product markets. One key factor will be the introduction of reformulated gasoline or RFG, which must be available at the retail level by January 1, 1995. The U. S. government has mandated RFG in nine major cities to help meet federal air quality goals. Several other areas, including three of our markets, have opted into the program.

DEBT AS A PERCENT OF CAPITALIZATION



RFG reduces tailpipe emissions, largely through the addition of oxygen-containing compounds, such as MTBE and ethanol. Although we believe it is the best one, RFG isn't the only option to meet air quality goals. Some cities have selected gasoline with lower vapor pressure to reduce auto emissions. Moreover, other rules require seasonal changes in gasoline vapor pressure and oxygen content in areas where RFG is not required. As a result, we are entering an era of "designer gasolines," most of which cannot be mixed in transportation and storage. The proliferation of gasoline grades may tax the distribution chain's ability to deliver product to the market and could result in regional supply and demand imbalances. As gasoline becomes more of a specialty product, refinery margins could improve.

ASHLAND OUTLOOK

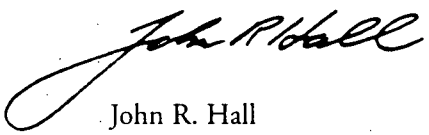
As we move forward through the '90s, we will continue to emphasize the themes we have stressed in recent years — increasing earnings from related energy and chemical businesses, maintaining a strong competitive position in refining and further improving the balance sheet.

The benefits of this strategy are evident. Our related energy and chemical businesses now produce more earnings than our traditional refining and wholesale marketing operations. At the same time, our strengths in refining still offer the considerable upside potential of that business when refinery margins are at attractive levels.

Recognizing that Ashland has evolved over the past 13 years into a worldwide energy and chemical company, the board of directors approved a resolution in November to change the company's name to Ashland Inc. The proposed change must be approved by vote of the shareholders at our annual meeting on January 26, 1995. Proxy materials mailed with this report provide more information. The proposal would not affect our organizational structure, stock symbol (ASH) or corporate logo. Instead, the proposal reflects our broader business portfolio, while retaining the historical name of Ashland, with which we have been identified for over 70 years.

In summary, we've lived up to our predictions: Net income and cash flow are up; debt is down; equity has increased; we are capitalizing on growth opportunities in our value-added businesses; and our refining operations are in an increasingly stronger competitive position.

These accomplishments would not have been possible without the ongoing commitment of our 31,600 employees. We thank them for their efforts; we thank you, our shareholders, for your continued investment in our company; and we look forward to pursuing opportunities to create value and increase profits in 1995.



John R. Hall
Chairman of the Board
and Chief Executive Officer
November 9, 1994

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Understanding Ashland

Leveraging traditional strengths for profitable growth

Ashland is a worldwide energy and chemical company with operations in refining; retail gasoline marketing; motor oil; chemicals; highway construction; oil and gas; and coal. These principal businesses share a set of common strengths that drive growth and create a competitive edge in the marketplace.

Technological leadership in such disciplines as manufacturing, extraction and sales automation sustains Ashland's position as a cost-efficient producer and marketer of petroleum products, chemicals and natural resources.

Through its **marketing and distribution** expertise, Ashland provides profitable, value-added outlets for its refined and related products, while leveraging these same skills in the upstream hydrocarbon and coal markets.

Superior **customer service** is an organizational hallmark embodied in the corporation's high-quality products and customer-focused business strategies.

Strong base of earnings in related energy and chemical lines

Ashland's related energy and chemical businesses provide a large, balanced and stable earnings base, as well as considerable long-term growth potential.

Over the past five years, these businesses have provided aggregate pre-tax earnings of $292 million a year on average, or 78 percent of the corporation's total, before general corporate expenses and interest.

Capitalizing on an improving discretionary cash flow position, Ashland devoted nearly 60 percent of its $376 million capital budget for 1994 to these business lines. This emphasis will continue.

In keeping with this shift in capital employed, Ashland's related energy and chemical businesses should gradually become an even larger contributor to earnings and create a significant share of future value.

Significant upside potential in refining

Complementing and supporting these related energy and chemical lines is one of the nation's largest and most efficient independent refiners and wholesale marketers.

Having substantially completed the investment necessary to produce cleaner-burning fuels, Ashland Petroleum will maintain its capital spending in the range of depreciation levels over the next few years. Coupled with improving market conditions, this shift has enabled the petroleum company to resume its role as a net cash flow generator and a driving force behind the corporation's future growth.

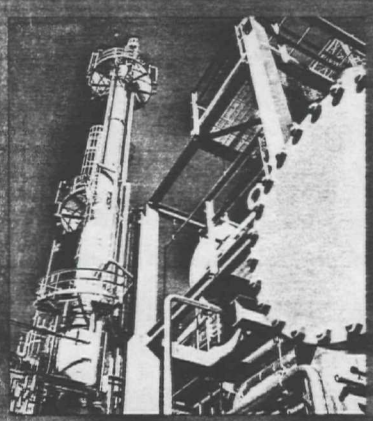
Meanwhile, Ashland's refining system is well-positioned to capitalize on dramatic changes in the fuels market that are expected to improve margins in the corporation's marketing area. This development could further strengthen Ashland Petroleum's considerable upside earnings potential.

More than the sum of its parts

Taken together, Ashland's refining and related energy and chemical businesses represent an attractive mix of earnings, cash flow and long-term shareholder value. Important strategic, operating and financial linkages between these businesses create further value for Ashland's shareholders.

The corporation's involvement in each of its principal businesses dates back at least 25 years. Over the years, Ashland has established leading positions in nearly every market it serves, along with a firm understanding of how to capitalize on those positions.

Business	Date of entry
Refining	1924
Exploration	1936
Valvoline	1950
Chemicals	1956
Road construction	1966
Coal	1969
SuperAmerica	1970



Technological Leadership

Marketing and Distribution

Customer Service

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Ashland Petroleum

A leading independent refiner, Ashland Petroleum is the hub of the corporation's operating strategy. Four of Ashland's related energy and chemical businesses provide value-added outlets for the petroleum company's refined products, including gasoline, motor oil, petrochemicals and asphalt. Although volatile, the refining business provides the corporation with powerful earnings potential during periods of market strength.

Ashland Chemical

Ashland Chemical is the largest North American distributor of chemicals and plastics and occupies preeminent positions in the six specialty chemical markets it serves. This strategic focus has created a successful and recession-resistant portfolio of operations. In each of the past three years, Ashland Chemical has been the corporation's largest contributor to earnings. In addition, the chemical company markets Ashland Petroleum's entire production of petrochemicals.

SuperAmerica

The SuperAmerica Group is a share leader in several of the Midwest's largest metropolitan markets. Nearly 600 SuperAmerica® stores provide profitable retail integration for close to 40 percent of Ashland-refined gasoline. With the addition of up to 200 stores over the next five years, that percentage should climb to well over 50 percent. The chain adds further value with an innovative and highly successful in-store merchandising program.

Valvoline

Valvoline is Ashland's oldest and most prestigious consumer brand. Applying its proven marketing formula in other segments of the automotive aftermarket, Valvoline has become a larger and more consistent contributor to earnings. The division uses or markets 100 percent of Ashland Petroleum's lube stock production. Meanwhile, the world-recognized Valvoline® brand creates one of Ashland's best opportunities for overseas growth.

Construction

The largest U.S. highway contractor, the APAC construction group adds strong earnings, attractive cash flow and a solid return on investment to the corporation's financial equation. A logical extension of Ashland's asphalt production and marketing strengths, APAC buys liquid asphalt from Ashland Petroleum.

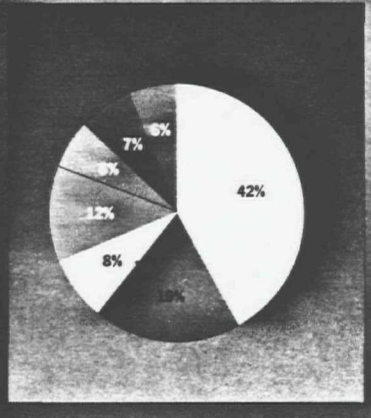
Exploration

An oil and gas producer and marketer, Ashland Exploration provides an important presence in the upstream energy business, the opportunity for substantial increases in shareholder value, and the potential for a sizable crude oil base through its international ventures. A promising find in the first of a multi-well exploratory effort in Nigeria could lead to renewed international earnings.

Coal

Diversifying its energy industry involvement, Ashland applies its knowledge of energy markets as a long-time participant in the coal business. Ashland has equity positions in two large coal companies, Ashland Coal and Arch Mineral.

1994 Net Assets



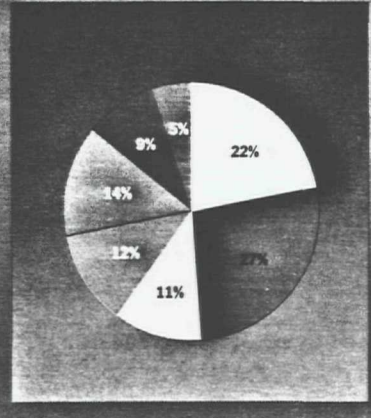
Ashland will capitalize on an improving free cash flow position by substantially increasing its investment in related energy and chemical lines.

1994 Sales and Operating Revenues*

*Includes inter-segment sales

Refining remains a large and central part of the corporation's operating strategy, providing powerful earnings potential during periods of market strength.

Operating and Equity Income, 1990-1994



Already the source of the majority of Ashland's pre-tax income, related energy and chemical businesses will create further value as the investment in them grows.

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INVESTOR CONVERSATION

AN INTERVIEW WITH ASHLAND'S CHAIRMAN AND PRESIDENT

DURING A RECENT ROUNDTABLE DISCUSSION IN NEW YORK CITY, CHAIRMAN JOHN HALL AND PRESIDENT PAUL CHELLGREN MET WITH REPRESENTATIVES OF FOUR KEY INVESTOR GROUPS TO DISCUSS THE CORPORATION'S PLANS FOR CREATING FUTURE VALUE.

Participants included Norman Israel, a long-time individual investor from Flushing, N.Y.; Jennifer Lauten, an employee shareholder who serves as Valvoline's division sales manager in Cincinnati; Philip McNeal, vice president of Morgan Guaranty, one of Ashland's primary credit providers; and Bernie Picchi, managing director of Lehman Brothers and a highly regarded petroleum industry analyst.

JOHN HALL

QUESTION Over the past 12 years, Ashland has carefully built a portfolio of energy and chemical businesses that have lent balance and stability to its earnings. What would you say to those investors who might prefer to have the components broken out so that investors could customize their own portfolios?

JOHN HALL We believe our business mix provides synergies that add to shareholder value. For example, SuperAmerica stores are supplied by Ashland Petroleum's refineries and sell about 40 percent of our gasoline production. We've focused SuperAmerica's operations in the markets Ashland Petroleum supplies, because we believe controlled volumes and distribution channels will become increasingly important in the era of designer gasolines. Also, when refinery margins are weak, retail margins may be good — and vice versa.

BERNIE PICCHI

Ashland Petroleum also supplies the majority of Valvoline's base lube oil stocks, and the Catlettsburg, Ky., refinery produces some 15,000 barrels a day of solvents and petrochemicals that are used or marketed by Ashland Chemical. So that adds value to our refinery streams and can help hedge refinery margins.

With our business mix, many times we can make two plus two equal five.

QUESTION You've noted that with the major capital expenditures for the refining business behind you, you plan to invest more in related energy and chemical businesses. How do you plan to allocate your resources?

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PAUL CHELLGREN We plan to maintain capital spending for Ashland Petroleum in line with its depreciation for the next few years. As a result, the refining business should be a net cash generator. Our other five wholly owned lines of business will receive a substantial portion of our capital investments for the future. Frankly, they've been a little starved for growth capital in the past few years. As a result, each one has a number of projects they'd like to pursue.

Each of our related energy and chemical businesses has interesting opportunities. We will rank these opportunities by their anticipated return on investment and potential to add value and earnings.

QUESTION Ashland Chemical is a big part of Ashland's business portfolio outside the refining sector. What is your strategic plan to grow the chemical business?

PAUL CHELLGREN Growth will come in two ways: internally and through acquisition. We believe there's a lot of room for internal growth in both our distribution and specialty chemicals groups. For example, revenues from our General Polymers plastics distribution business alone grew 20 percent in 1994. We also expect to expand further in international markets.

Our specialty chemical businesses represent some of the real gems in our business portfolio. Most of their markets are growing faster than real GNP, and we believe these businesses as a whole have a bright future, particularly in the international arena. We made four international specialty chemical acquisitions in 1994.

PAUL CHELLGREN

Our basic petrochemical business is linked to the Catlettsburg refinery. We recently completed an expansion of our maleic anhydride plant, and our methanol business is having an extraordinary year because of the need for oxygenates for reformulated gasoline — another important synergy linked to our basic refining business.

At present, we have about $600 million in capital employed in the chemical business. That's less than half the amount we have invested in refining. In the next few years, we hope to materially increase our investment in Ashland Chemical and to earn a good return.

QUESTION Valvoline is the company's best-known trademark. Are there ways you can capitalize on that to seek other profit opportunities?

PAUL CHELLGREN Car care products and international markets are the two major growth areas in Valvoline. We plan to begin to link the Pyroil® Performance Products and Zerex® brands much more closely with Valvoline in terms of packaging, joint promotions, motorsports, customer calls and all the activities related to consumer goods marketing. The Pyroil brand has quadrupled in volumes in just the past few years, and we believe that's a demonstration of how well we can apply our proven marketing strategies. In the international arena, Valvoline acquired six of its European distributorships during 1994, which together represent an excellent base for further expansion in both Eastern and Western Europe.

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QUESTION You recently pulled out of the Arizona construction market. What is the strategy now for the APAC road construction business?

JOHN HALL We decided to focus on our more traditional area of operations in the Southeast. APAC's strategy is to maximize earnings and make several strategic acquisitions that complement its current market position. APAC produces Ashland's highest return on investment.

PAUL CHELLGREN We have reduced our capital employed in APAC, its earnings have rebounded nicely, and it consistently generates net free cash flow that can be reinvested according to our strategic objectives for the corporation. The 1991 highway bill plowed between 30 and 40 percent more federal money into the highway program, so APAC's outlook is positive.

JENNIFER LAUTEN

QUESTION What are the geological prospects for the well you recently completed offshore Nigeria? Will the new Nigerian exploratory effort offset the decline in your existing crude oil production there?

JOHN HALL We've been very successful in Nigeria over the past 20 years. We are drilling this year in an effort to prove up new reserves. We believe we have a good chance of success in the new offshore blocks, and that's one of the most exciting developments in our business portfolio. We have a very encouraging initial well, and the 3-D seismic is very encouraging. But we really must drill at least two more wells before we know the likely extent of the reserves that may be there. TOTAL, the French multinational oil and gas company, is our partner in this effort. We are the operator and hold a 50-percent interest in the joint venture.

PHILIP MCNEAL

QUESTION What about your equity positions in the coal business?

JOHN HALL Ashland Coal and Arch Mineral combined have probably the best low-sulfur coal reserves in the Eastern United States. We believe both of these companies are led by outstanding management teams. Low-sulfur coal demand will increase as the Clean Air Act regulations take effect. We've been in the coal business for 25 years; it's right in our back yard; and it's an energy business that we understand very well.

QUESTION What impact will reformulated gasoline have on the refining business?

JOHN HALL We believe the introduction of reformulated gasoline will help gasoline margins, because there's going to be a proliferation of different grades of gasoline which should tend to move gasoline more toward a specialty, rather than a commodity, product.

Some reformulated gasoline will contain MTBE as the oxygenate source; some will contain ethanol; and you won't be able to mix the two in the pipeline or in storage. Some communities are choosing low RVP (Reid Vapor Pressure) gasoline as their method for complying with state air quality implementation plans. For example, we believe that the Colonial Pipeline, a major product conduit from the East Coast to the West Coast, will have to handle about 140 different grades of gasoline over the course

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of 1995, compared to less than 40 this year. That could create a lot of scheduling and distribution challenges and could begin to make gasoline less of a commodity.

QUESTION Ashland has invested heavily in the refining business to maintain its competitive position. What factors do you believe will allow you to sustain that competitive edge over time?

JOHN HALL First of all, our geography gives us an edge. We're the second largest refiner and have the most complex refineries in the U.S. mid-continent area. [Complexity measures the capacity to upgrade crude oil to higher-value products.] We have a large marketing presence in the same region, both at the retail and wholesale level, and we ship 80 percent of our refined products directly from the refinery by barge or truck, so we're less pipeline-dependent than many of our competitors.

Second, we believe our Reduced Crude Conversion® technology provides key benefits. Many of our competitors are still running sweet crude oil, and a lot of others do not have the capacity we have to convert residual fuel into higher-value transportation fuels. In fact, we plan to convert a shut-down unit into an RCC unit to enable us to process more heavy, sour crude oil. A related advantage is that we're located in the midst of an enormous asphalt market, and the portion we cannot convert into transportation fuel we can put into asphalt.

NORMAN ISRAEL

QUESTION How will funding growth in the related energy and chemical businesses compete with your previously stated goal to reduce debt?

PAUL CHELLGREN We've already made substantial progress in reducing our debt load. At the end of fiscal 1994, total debt was $1.5 billion and accounted for 48 percent of total capitalization. Two years ago, debt represented 60 percent of our total capitalization. So we've already made great strides. We do not expect a material reduction in absolute levels of debt in the near term. As our net worth grows, the balance sheet improves, plus the debt-to-capital and other ratios improve.

In the next few years, I believe you will see this trend continue. We will be funding the type of growth opportunities I mentioned earlier, and we expect to keep our debt-to-capital ratio about where it is now, although we would be willing to increase it for the right opportunity. Having said that, let me emphasize that we monitor debt ratios and our capital structure very closely, and maintaining a strong balance sheet will continue to be a basic part of our strategy.

QUESTION So your outlook for the future is — ?

JOHN HALL We're very optimistic about the outlook for the company. We believe we're in the strongest competitive and financial position that we've occupied in years, and we're confident that this will result in improved returns and greater value for our shareholders in the future.

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ASHLAND PETROLEUM

EFFICIENT REGIONAL REFINER

WITH ITS STRONG REGIONAL MARKET NICHES, SOPHISTICATED REFINERIES AND EFFICIENT PRODUCT DISTRIBUTION SYSTEM, ASHLAND PETROLEUM IS PREPARED TO SUPPLY CLEANER-BURNING FUELS AND TAKE ADVANTAGE OF A RAPIDLY CHANGING MARKETPLACE.

Despite lower average margins for the industry overall, Ashland's refinery margins improved by 79 cents a barrel in 1994. This improvement reflected both stronger margins in Midwest markets and internal steps to improve crude oil selection and enhance competitive position. Operating income more than doubled to $113 million.

Ashland Petroleum's principal assets are three refineries with total processing capacity of 346,500 barrels of crude oil a day. Located at Catlettsburg, Ky.; Canton, Ohio; and St. Paul, Minn., these refineries serve a regional market niche in the upper Midwest and central Ohio Valley. Margins in this mid-continent region are typically stronger than the larger New York Harbor and Gulf Coast markets. In 1994, Ashland Petroleum's all products margin averaged 126 percent of the NYMEX 3-2-1 crack spread. As demand grows and pipeline capacity into the region is constrained by product proliferation, this regional market niche should become even more advantageous.

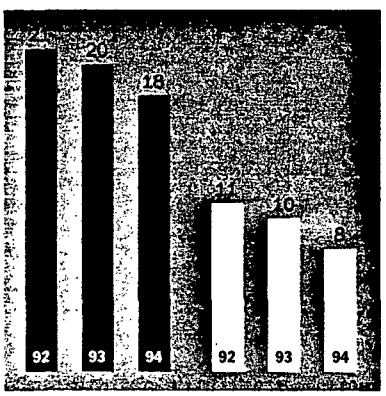
Ashland Petroleum is the second largest refiner in the mid-continent. Furthermore, its refineries have the highest average complexity rating in the region, reflecting their superior ability to upgrade crude oil into higher-value products. In addition to attractive yields of gasoline, the company produces significant quantities of high-value specialty products, such as lube oils, petrochemicals and petroleum pitch.

Between 1989 and 1993, Ashland Petroleum invested roughly $300 million to install five new processing units at its refineries. Along with adding significant low-sulfur diesel fuel capacity, these new units have substantially increased heavy oil upgrading and sulfur removal capabilities and enhanced refinery streams.

This capital program also enables Ashland Petroleum to produce reformulated gasoline cost-effectively. A 3,000-barrel-per-day MTBE unit and partial interest in an ethanol plant provide an ample supply of oxygenates for this purpose. Through these sources, Ashland Petroleum has the capacity to produce around 70,000 barrels of reformulated gasoline a day.

MAJOR REVENUE SOURCES

■ GASOLINE □ CRUDE OIL



PERCENT OF THE CORPORATION'S CONSOLIDATED SALES AND OPERATING REVENUES (EXCLUDING EXCISE TAXES)

While Ashland Petroleum does not directly supply any of the nine areas federally mandated to use reformulated gasoline beginning Jan. 1, 1995, several of its markets have opted in to the program. These include Pittsburgh, Louisville and northern Kentucky. Initially, Ashland Petroleum expects to produce around 25,000 barrels of reformulated gasoline a day for these markets. Moreover, other markets have

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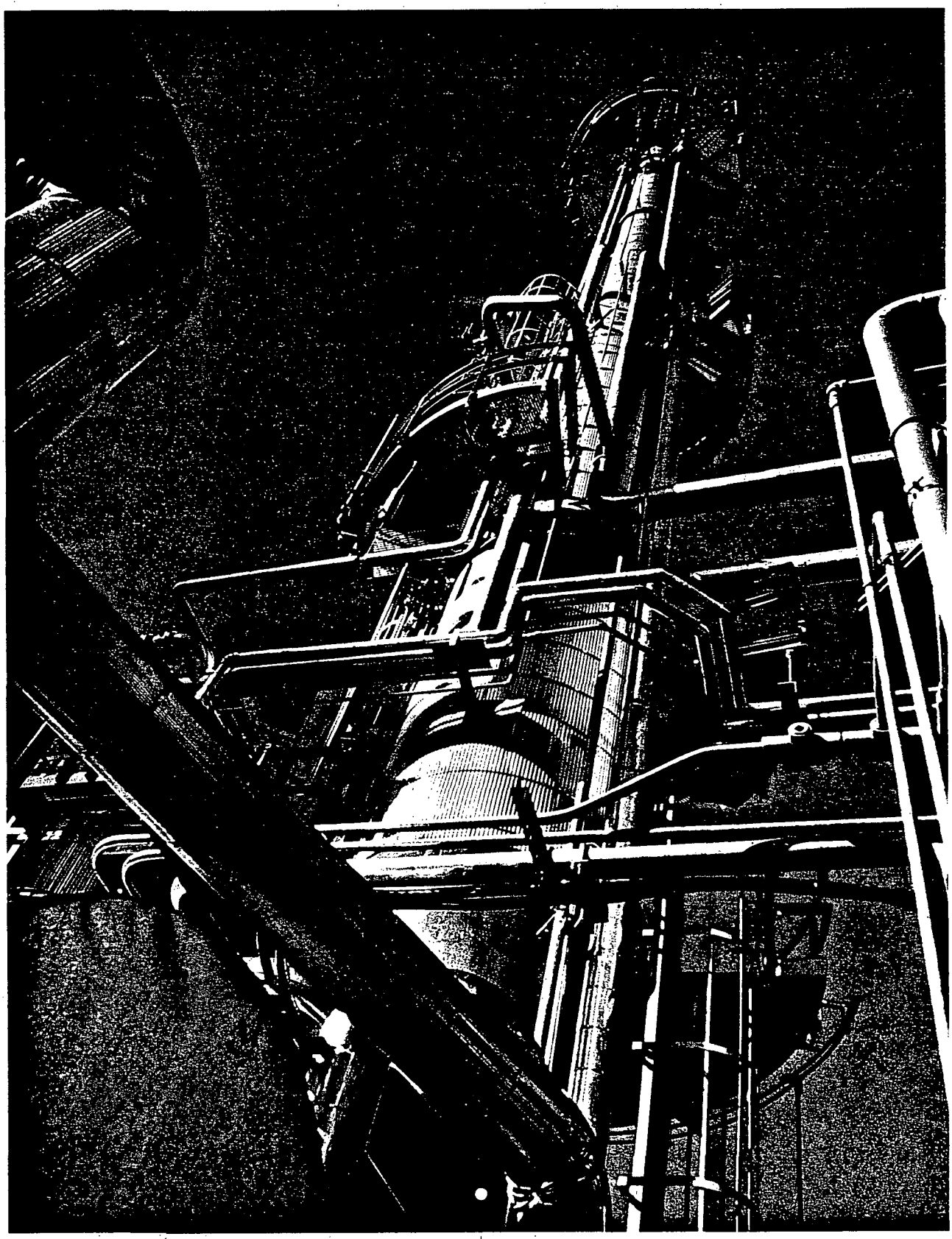

FIVE UNITS ADDED SINCE 1991, INCLUDING THIS CONTINUOUS CATALYST REGENERATION REFORMER AT CATLETTSBURG, HAVE EQUIPPED ASHLAND'S REFINERIES TO MAKE CLEANER-BURNING FUELS, IMPROVED YIELDS OF HIGHER-VALUE PRODUCTS, AND ENHANCED HEAVY OIL UPGRADING AND SULFUR REMOVAL CAPABILITIES.

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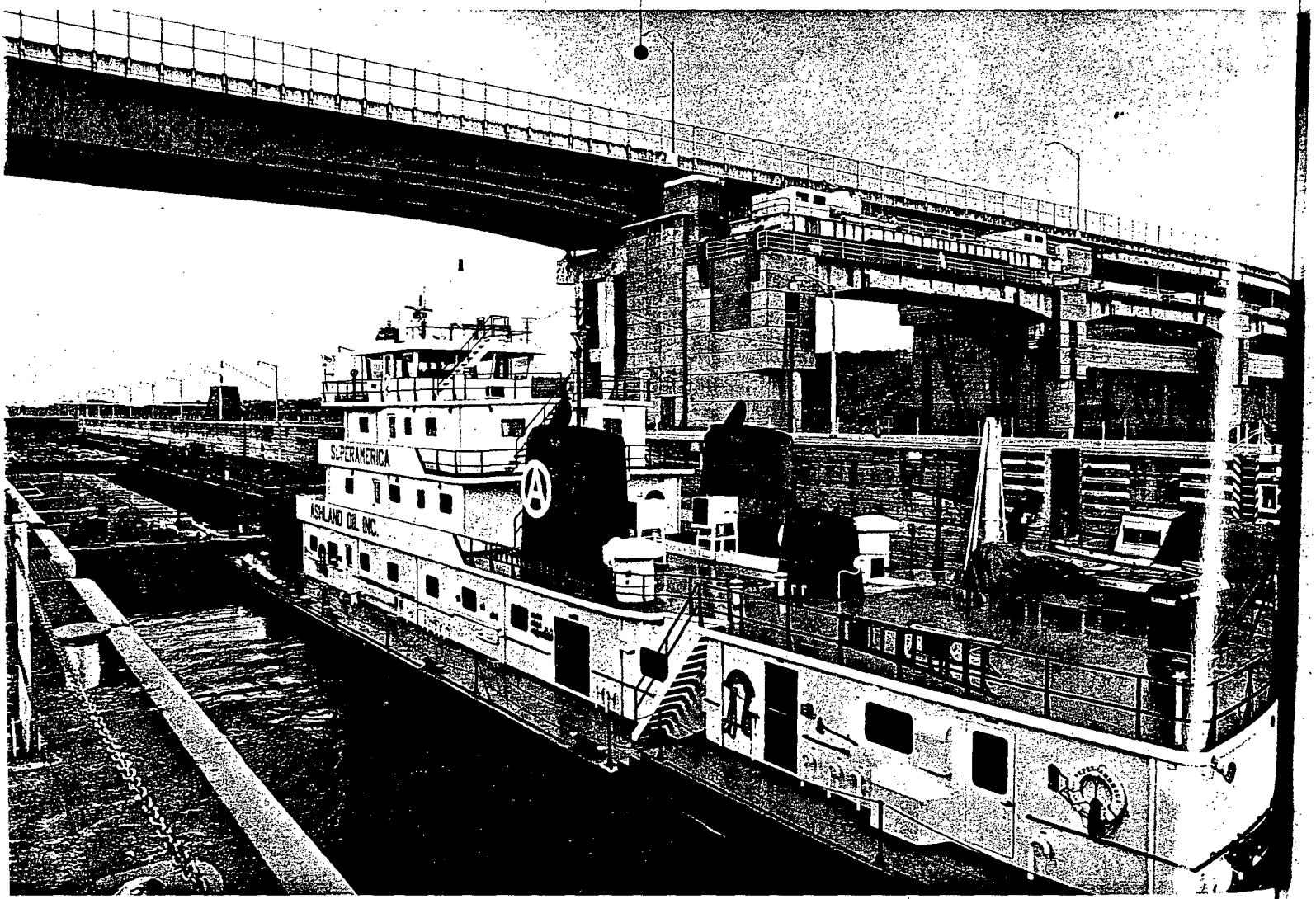
ANCHORED BY LOW-COST RIVER TRANSPORTATION, ASHLAND'S HIGHLY EFFICIENT PRODUCT DISTRIBUTION SYSTEM IS UNIQUELY EQUIPPED TO HANDLE THE MARKET'S EXPANDING RANGE OF PRODUCT GRADES.



AT THE AUTOMOTIVE AND PRODUCT APPLICATION LABORATORIES IN ASHLAND, KY., TECHNICIANS USE GAS CHROMATOGRAPHY TO MEASURE OXYGEN LEVELS IN REFORMULATED GASOLINE.

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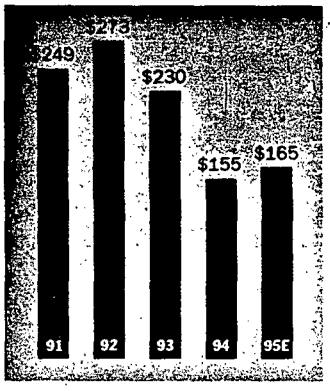
adopted their own fuel specifications. This proliferation of fuel types will create a more segmented product market, which should lead to stronger margins.

Ashland Petroleum is capable of converting more than 70 percent of its total distillate production to low-sulfur diesel fuel. At present, this fuel is only required for on-highway use, which accounts for about half of distillate demand nationwide. To take advantage of opportunities in both segments of this split market, the company has maintained the flexibility to produce high volumes of traditional diesel fuel as well.

ASHLAND PETROLEUM CAPITAL EXPENDITURES
(IN MILLIONS)



Ashland Petroleum's highly efficient product distribution system is also well-suited for the new fuels marketplace. The petroleum company ships more than 80 percent of its transportation fuels directly from the refinery via barge or truck. As a result, the company is far less dependent on pipelines than some of its peers. Refiners who ship products via pipeline face a difficult task of product segregation and storage as gasoline grades proliferate. In contrast, Ashland Petroleum can segregate fuel grades easily and efficiently through its fleet of 171 barges and eight towboats.

Having made the investment necessary to produce cleaner-burning fuels, Ashland Petroleum is seeking to secure the most profitable outlets for its production. SuperAmerica currently markets close to 40 percent of the gasoline Ashland Petroleum refines, a number that will climb as new stores are added. Likewise, Ashland Petroleum is developing a new distributor program for the Ashland® brand in markets surrounding the Catlettsburg, Ky., refinery.

Ashland does not have significant crude oil reserves. But it does have secure and strategic access to a wide variety of crude oils. The company's Scurlock Permian subsidiary gathers 343,000 barrels of crude oil daily from domestic producers. Excellent relationships with foreign crude oil suppliers, along with ownership interests in the nation's only deep-water tanker port (LOOP) and the Midwest's major pipeline artery (Capline), provide access to foreign crude oils. A recent pipeline flow reversal in Illinois now enables the company to move Canadian crude oil to its Kentucky and Ohio refineries. Canadian crude oils continue to be available to the Minnesota refinery as well. These diverse sources enable Ashland Petroleum to purchase crude oil in a highly opportunistic manner.

In September, the company enhanced this flexibility still further with the completed renovation of a 14,000-barrel-per-day solvent de-asphalting unit. The unit equips the Catlettsburg refinery to run heavier crude oils, optimize asphalt production to fit changing market conditions, and cut catalyst costs for its Reduced Crude Conversion® unit.

Looking ahead, Ashland Petroleum is well-positioned to compete for the remainder of this century and beyond. During the year, the industry operated at over 92 percent of capacity, and economic expansion is spurring demand growth. Ashland Petroleum's efficient refineries are positioned to capitalize on this improving market environment. Likewise, continuing efforts to control costs and maximize efficiency will enhance profitability. Meanwhile, Ashland Petroleum will maintain its capital spending in the range of depreciation levels over the next few years. As a result, the petroleum company should again become a primary source of net cash flow for the corporation.

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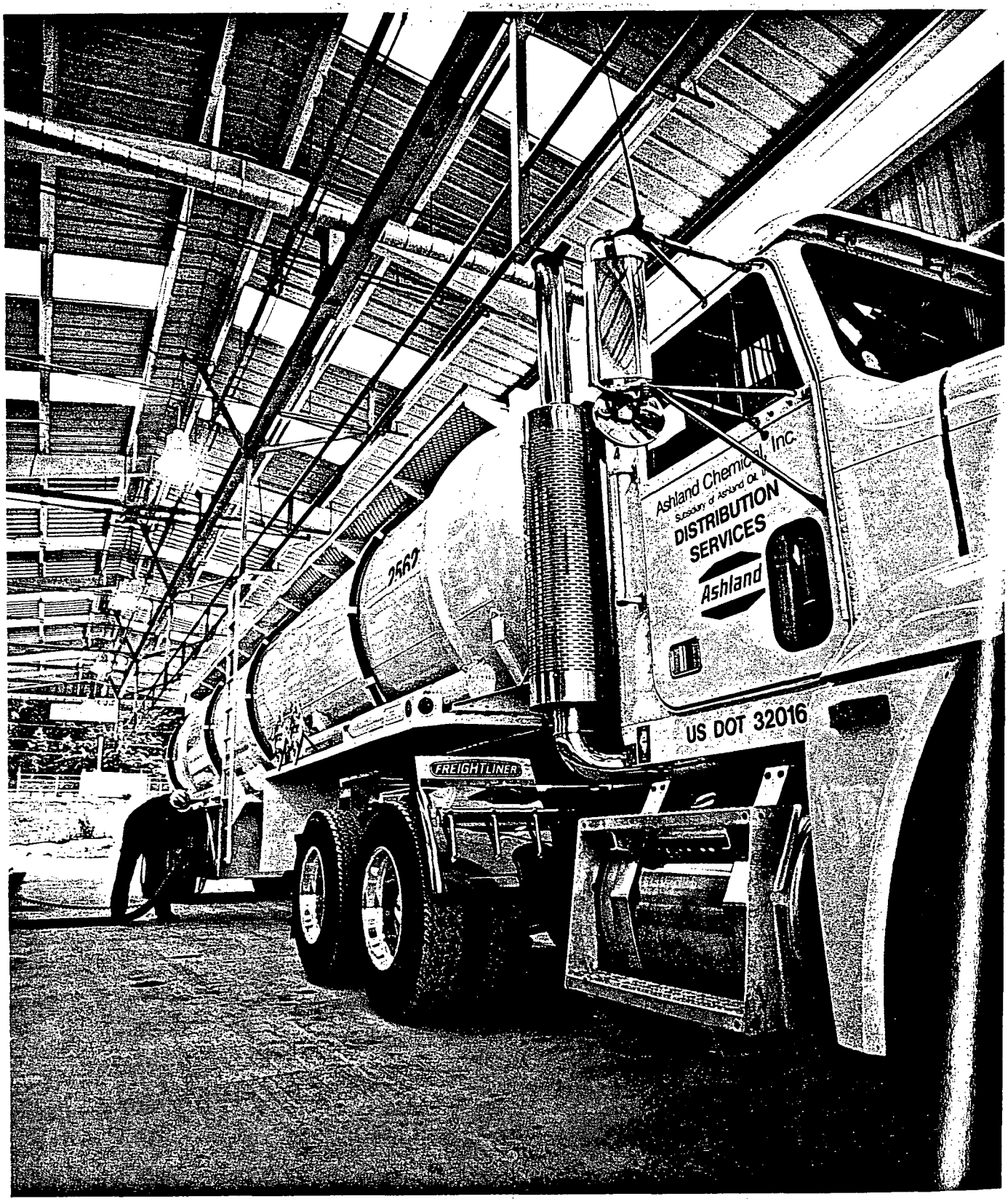

THE LARGEST DISTRIBUTOR OF CHEMICALS AND PLASTICS IN NORTH AMERICA, ASHLAND CHEMICAL MARKETS MORE THAN 16,000 PRODUCTS FROM 88 FACILITIES ACROSS THE CONTINENT.

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A SUCCESSFUL NICHE STRATEGY, EXPANSION IN KEY MARKETS AND INTEGRATED MARKETING EFFORTS PACED ASHLAND CHEMICAL TO ITS SECOND STRAIGHT RECORD PERFORMANCE IN 1994 AND SET THE STAGE FOR CONTINUED EARNINGS GROWTH.

An emphasis on chemical and plastics distribution and specialty chemical lines creates a unique business mix that has proved profitable in good economic times and bad, as best-ever performances in each of the past two years attest. Operating income increased 16 percent to $125 million in 1994. Distribution, specialty chemical and petrochemical businesses all realized higher earnings.

Market leadership is a key objective and in most business lines already a reality. The company has first or second share in most of the markets it serves. It is the No. 1 distributor of chemicals and plastics in North America and occupies pre-eminent positions in six specialty chemical segments. Likewise, the petrochemical group has established profitable market niches through efficiently sized plants, strong customer relationships and strategically located operations.

Ashland Chemical is leveraging these positions by aggressively marketing its array of products and services to 60,000 North American customers and a growing international sales base. Similarly, the company is tapping its diverse capabilities to provide unique solutions to customer problems. A proven record of growth through acquisition provides another key mechanism for expansion. The company made five acquisitions in 1994 that should increase global market penetration, enhance product lines and extend sales and marketing capabilities.

Other steps promise to boost profitability as well. Ashland Chemical is taking advantage of its market strength to emphasize higher-value products. Companywide partnerships with key suppliers are leading to reduced distribution costs, improved product quality and greater supply assurance. Environmental leadership in the industry's Responsible Care® initiative and ongoing efforts to minimize waste, reduce emissions and provide environmental services position the company as a business partner of choice. Together, these diverse strengths translate into a powerful, sustainable advantage.

The distribution group markets a broad spectrum of chemicals, plastics and related products from 88 facilities across North America. The group is reducing its costs and increasing its geographic penetration through shared systems, delivery services and facilities. Similarly, the group is seeking to improve customer service through continued investments in information technology, such as sales force automation systems.

Already the leading U.S. distributor of industrial chemicals and fine ingredients, Ashland Chemical has targeted Mexico, Canada and the Caribbean for aggressive expansion of its chemical distribution business. Focused marketing creates unparalleled customer service and technical support.

The thermoplastics distribution business is the nation's largest source for prime, packaged thermoplastics. This business is growing rapidly, posting record earnings in a market that is projected to double over the next five years. Ashland Chemical is moving quickly to take its thermoplastics distribution success into the global arena, with

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an initial emphasis on the advanced economies of Europe and the Pacific Rim.

Ashland Chemical is the only national supplier of resins, glass and ancillary products to the fiber-reinforced plastics industry. This business posted record results. Using existing infrastructure, Ashland Chemical continues to expand this business at a growth rate much higher than that of the overall market.

The specialty chemicals group manufactures and markets a broad range of value-added products and services worldwide. Because these businesses are technology driven, a key challenge is the rapid development of new products and services. Ashland Chemical is increasing its spending on research and commercial development.

The worldwide leader in foundry chemicals, Ashland Chemical is at the forefront in developing a new generation of environmentally friendly products. Record results in its North American foundry chemical unit and expansion along the Pacific Rim more than offset sluggish European foundry market conditions and led to strong earnings gains.

Demand strength in end-use markets provided significant earnings growth in the polyester resin business. The successful integration of the MODAR® line, acquired from ICI in 1994, provides a series of high-performance products for unique applications, as well as an expanded European customer base.

In the structural and pressure-sensitive adhesives business, Ashland Chemical achieved record earnings, expanded its industry-leading customer support, and introduced new phenolic resins and acrylic emulsions.

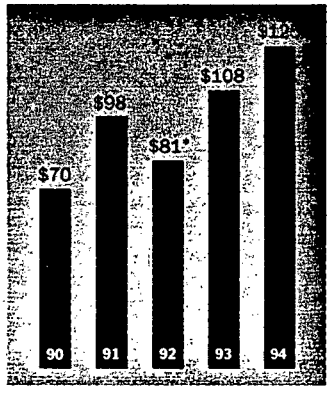
In addition to achieving record earnings, the water treatment chemicals and services business strengthened its European position in 1994 with the acquisition and integration of Sweden-based Mitco AB. A strategic alliance with Petrolite will enhance the unit's ability to serve the petroleum refining business.

One of the world's two largest suppliers of shipboard chemical products and services, the marine segment had its 10th consecutive record performance. The business is expanding its product and service portfolio to address emerging performance and environmental needs. New products include a non-CFC-based shipboard refrigerant and refrigeration conversion services.

Setting the standard for chemical purity levels critical in advanced microchip manufacturing, the electronic chemicals business had another record performance. Two 1994 acquisitions enhance its geographic position and product portfolio. The first, ACT, Inc., provides advanced new technologies and a strong Pacific Rim sales base. Eurobase SpA adds a European manufacturing base and a platform for the expansion of other lines.

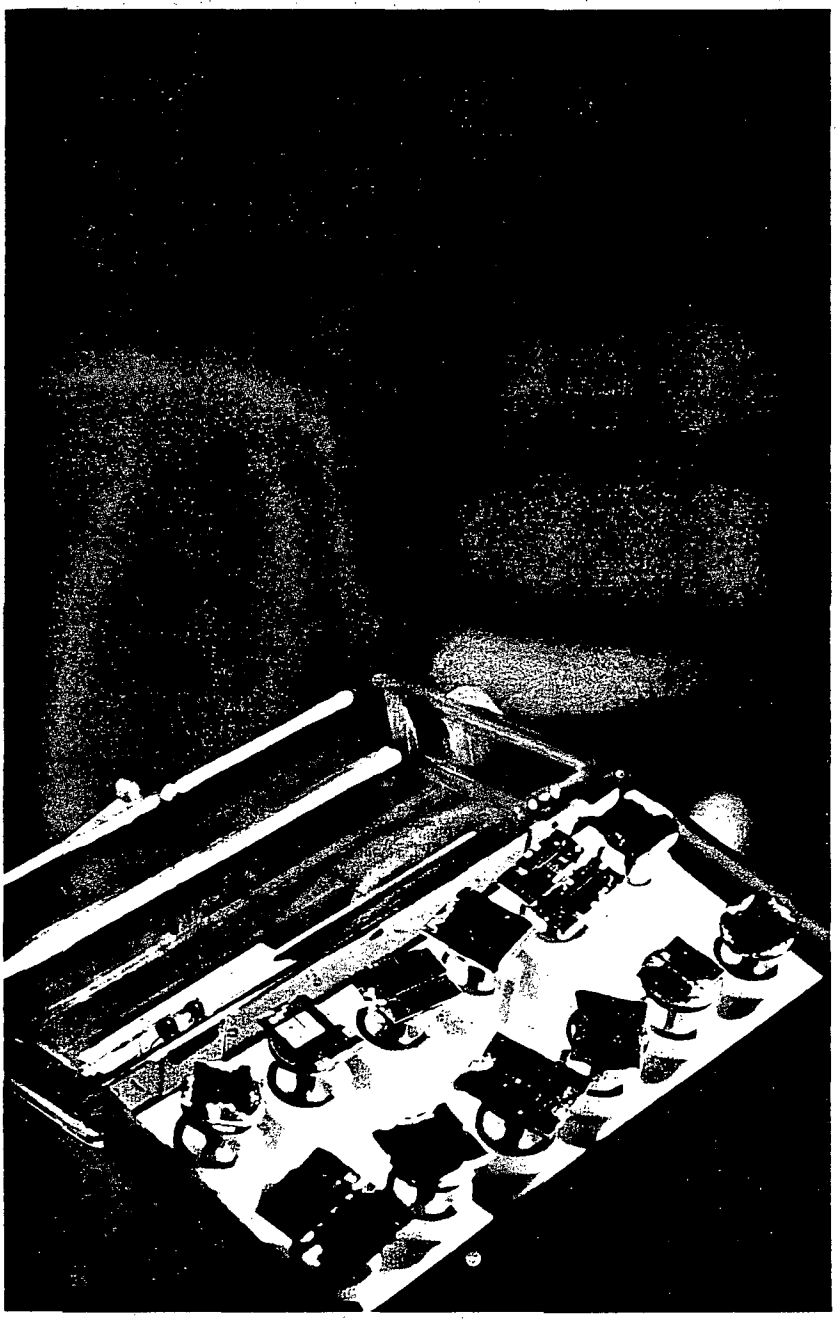
For the petrochemical group, strategic ties with internal and external customers provide some insulation from volatility and the basis for future growth. In 1994, the group's Neal, W.Va., maleic anhydride plant completed a $12.5 million expansion that will enable it to capitalize on market growth.

ASHLAND CHEMICAL OPERATING INCOME
(IN MILLIONS)



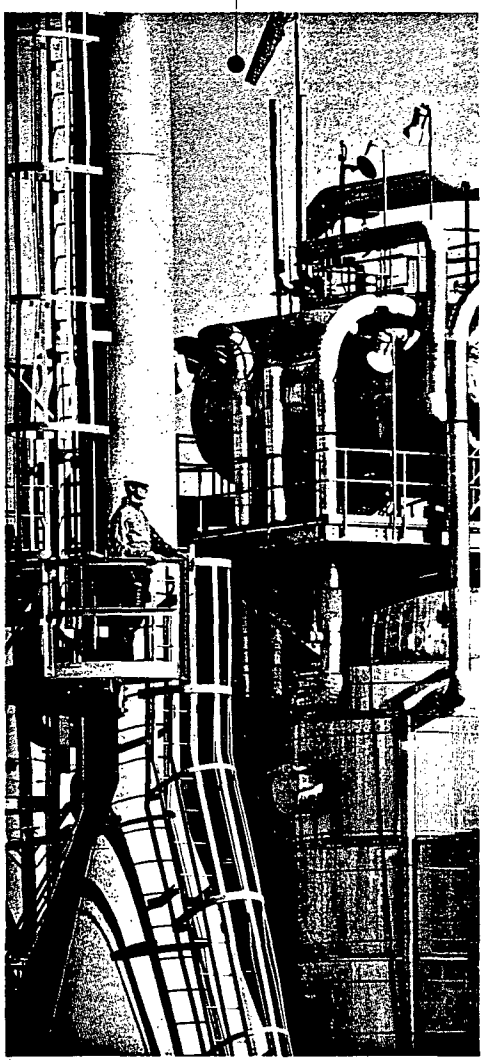
*INCLUDES $15 MILLION IN UNUSUAL CHARGES

Ashland Chemical will build on its proven strengths — a profitable niche strategy, a successful record of growth through both internal and external means, and superior relationships with customers and suppliers. The company will push into new markets around the world and establish itself as a key partner for an environmentally responsible future.



THE 1994 ACQUISITION OF ACT, INC. PROVIDES THE ELECTRONIC CHEMICALS DIVISION WITH PATENTED TECHNOLOGY USED IN THE MANUFACTURE OF LEADING-EDGE ELECTRONIC COMPONENTS, SUCH AS THE INTEGRATED CIRCUITS PICTURED HERE.

AT THIS PLANT IN PLAQUEMINE, LA., ASHLAND CHEMICAL CAN MAKE UP TO 155 MILLION GALLONS OF METHANOL A YEAR. A KEY COMPONENT IN THE OXYGENATE MTBE, METHANOL IS EXPERIENCING RECORD DEMAND GROWTH RELATED TO NEW VEHICLE FUEL REQUIREMENTS.



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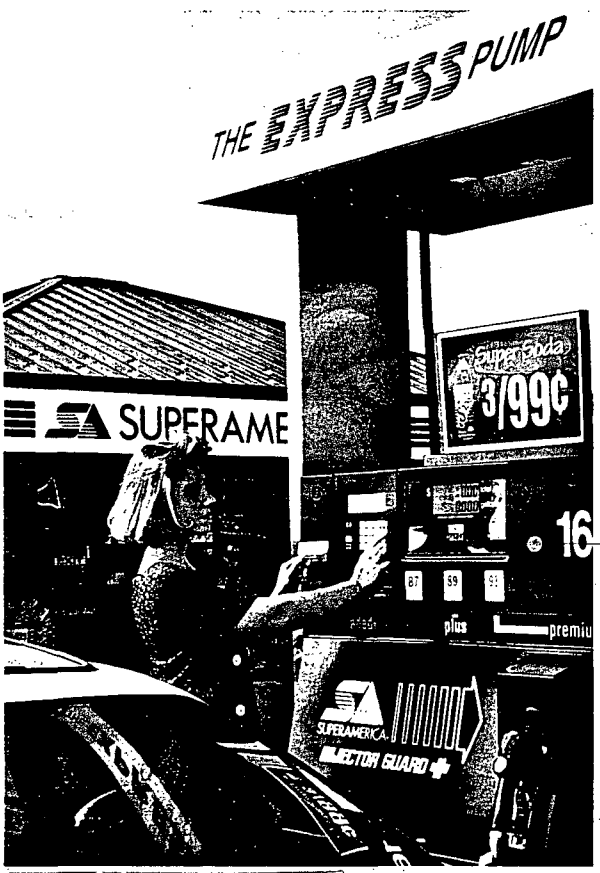
SUPERAMERICA IS ADDING BRAND-NAME FAST FOODS TO ITS HIGHLY EFFECTIVE, ONE-STOP-SHOPPING CONCEPT. IN-STORE TACO BELL® EXPRESS LOCATIONS, SUCH AS THIS ONE IN LEXINGTON, KY., ARE DRAWING NEW CUSTOMERS AND BOOSTING SALES AND PROFITS.



EXPRESS PUMPS WITH CREDIT-CARD READERS PROVIDE BUSY CUSTOMERS WITH A FAST, CONVENIENT FUELING ALTERNATIVE.

842600623

WITH PLANS TO ADD UP TO 200 NEW STORES IN ITS TIGHTLY FOCUSED, 11-STATE MARKETPLACE DURING THE NEXT FIVE YEARS, SUPERAMERICA WILL SOON MARKET THE MAJORITY OF ASHLAND'S HIGH-QUALITY GASOLINE.

The chain adds further value through an innovative and highly profitable retailing concept that elevates customer service to an art. Capitalizing on strong liquid and merchandise margins, the group achieved operating income of $59 million in 1994, a record year for ongoing operations. Earnings of $65 million in 1993 included operating income from its divested operations in Florida and other non-strategic areas, as well as gains on the sale of certain of those operations.

The division currently operates 598 SuperAmerica® stores. In addition to high-quality fuels and traditional, quick-stop grocery items, these stores offer customers an attractive mix of fresh-baked goods, automated teller machines, video rentals, automotive accessories, and a full range of private-label items.

Consequently, the typical SuperAmerica store sells 34 percent more merchandise than the industry average and about 70 percent more gasoline, according to National Association of Convenience Store data.

New technology promises improved customer service and even greater returns on the chain's assets. Integrated point-of-purchase systems simplify and speed transactions by combining cash register, gas console, credit card terminal and price scanner functions. Installed in about 450 stores at year-end, this state-of-the-art information system provides detailed information on customer buying habits — information the chain is using to fashion the most profitable merchandise mix.

SuperAmerica is also adding new profit centers. Considerable market clout enables the chain to participate in the hottest innovation in retail gasoline marketing — partnerships with leading fast-food chains. With 10 in-store Taco Bell® Express locations at year's end, SuperAmerica plans to add substantially more in 1995. Subway® sandwich shops will be added at select other stores. A recently introduced commercial credit card program known as SuperFleet Manager targets local and regional fleets, a growing customer base with unique credit, security and information needs.

In key regional markets, an expanded advertising program highlights gasoline quality and reduces price sensitivity. Television and radio spots emphasize Ashland's years of refining experience, leading-edge additive package, premium grades, and quality-tested gasolines. In 1994, SuperAmerica progressed toward the completion of environmental upgrades to its underground storage tank installations, well in advance of the 1998 regulatory deadline and ahead of most competitors.

Having devoted the necessary capital to produce cleaner-burning fuels, major oil companies are now seeking to increase share in strategic retail markets. In this competitive environment, SuperAmerica will build on its strong regional brand name in key metropolitan markets where it is already a leader. Target markets include Minneapolis/St. Paul; Milwaukee; Columbus; Cincinnati; Dayton; Louisville; and Lexington, Ky. In key rural markets, SuperAmerica's 95 Rich® outlets add sales volumes while providing customers with a full-service option.

842600624

VALVOLINE

PREMIER CONSUMER BRAND

DURING 1994, VALVOLINE ADDED ANOTHER LEADING BRAND TO ITS PRODUCT AND SERVICE OFFERINGS, ACCELERATED GROWTH IN GLOBAL MARKETS, AND FURTHER LEVERAGED ITS INDUSTRY-LEADING POSITION IN ENVIRONMENTAL SERVICES.

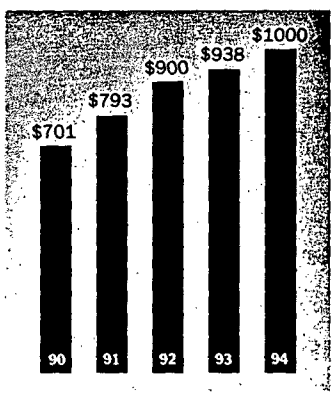
Valvoline is Ashland's oldest and best-known brand. After record results in each of the past two years, operating income of $52 million in 1994 was down slightly. Excellent results from Valvoline Instant Oil Change and Valvoline International were offset by substantially lower earnings from automotive refrigerant sales.

Branded, packaged Valvoline® motor oil is the organization's largest contributor to earnings. But flat U.S. motor oil demand and a shift in consumer preference from do-it-yourself to professionally installed oil changes have spurred Valvoline to broaden its earnings base. This effort has fueled the company's strong recent profit performances and led to a compounded annual sales growth rate of 10 percent over the past five years. Valvoline's annual revenues surpassed $1 billion for the first time in 1994.

In October 1994, Valvoline expanded its presence in the $1.7 billion U.S. automotive chemicals market with the acquisition of Zerex,® the nation's No. 2 brand of antifreeze. The purchase assures Valvoline an uninterrupted, competitively priced supply of antifreeze feedstocks into the next century. Meanwhile, record retail sales of Pyroil® automotive chemicals validated the line's "best value" marketing strategy.

Anticipated supply shortages in the automotive refrigerant market failed to materialize in 1994, depressing margins on IG-LO® Refrigerant-12 sales. However, as the exclusive distributor of DuPont's SUVA® Trans A/C, Pyroil continues to expand sales of this ozone-safe refrigerant to the new car market. Late in the year, Valvoline formed a new Car Care Products Group that will market Zerex, Pyroil, NAPA® and private-label automotive chemical brands. This new group allows Valvoline to better leverage its well-established sales and distribution channels.

VALVOLINE SALES
(IN MILLIONS)



Already a strong player internationally, Valvoline positioned itself for accelerated growth in key world markets. In March, Valvoline completed the acquisition of six of its European distributorships, creating opportunities for growth in both Western and Eastern European markets. A joint venture with The Western India Group will help Valvoline capitalize on rapidly growing demand for engine lubricants in India. The division is pursuing other such ventures in South America and the Far East. International sales were up more than 30 percent for the year.

With 347 company-owned and 75 franchise outlets, Valvoline Instant Oil Change is approaching the No. 2 position among U.S. quick-lube chains. Maturing stores, finely tuned cost efficiencies and a highly effective training program enabled VIOC to achieve higher car counts, ticket prices and profits in 1994. In 1995, VIOC will continue to expand its franchise program while adding 20 to 30 company-operated stores.

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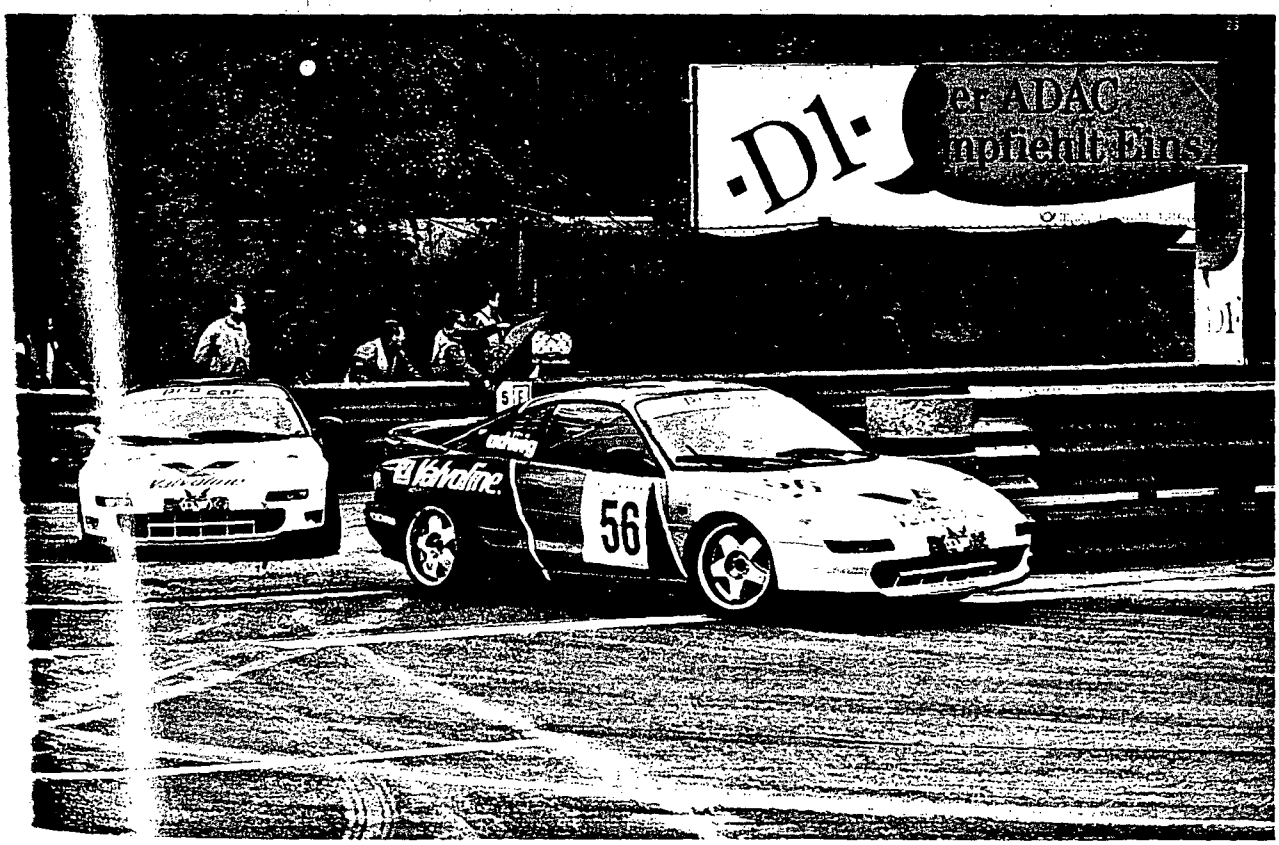
Valvoline Branded, the company's largest division, employs a customer-focused business strategy and capitalizes on the brand's No. 1 status among top mechanics, as confirmed by a recent survey. This strategy helped fuel market-share and earnings growth in 1994. During the year, the division established a new sales group to focus on the large U.S. commercial fleet motor oil segment. Involvement in IndyCar, NASCAR and NHRA Drag Racing, along with sponsorship of ABC-TV's Indianapolis 500 telecast, supports Valvoline's high-performance image.

Product advances such as Durablend™ semi-synthetic motor oil help boost sales volumes and generate excitement in the marketplace. Meanwhile, the industry's first category management program assists retailers in fashioning the most profitable product mix in their in-store motor oil displays. An industry environmental leader through its First Recovery unit, Valvoline completes the customer service cycle by providing responsible used oil collection to retail and service dealer customers nationwide.

Looking ahead, Valvoline will continue to diversify its earnings base by building on its world-renowned brand name, strong North American customer base and extensive automotive aftermarket distribution network.

THE ACQUISITION OF ZEREX,® THE NATION'S NO. 2 BRAND OF ANTI-FREEZE, PROVIDES VALVOLINE WITH ANOTHER LEADING CONSUMER BRAND TO MARKET TO ITS LARGE NORTH AMERICAN CUSTOMER BASE.

THROUGH HIGH-VISIBILITY MOTORSPORTS INVOLVEMENT AND OTHER PROVEN MARKETING STRATEGIES, VALVOLINE IS AGGRESSIVELY BUILDING SHARE IN MANY OF THE WORLD'S LARGEST AUTOMOTIVE MARKETS.



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CONSTRUCTION

LEADING U.S. HIGHWAY CONTRACTOR

THROUGH ITS STRATEGICALLY LOCATED ASSETS, LOW-COST OPERATIONS AND STRONG TECHNICAL ORIENTATION, THE APAC CONSTRUCTION GROUP IS INCREASING PENETRATION IN MANY OF THE SOUTHEAST'S FASTEST GROWING MARKETS.

In 1994, the group generated record earnings, solid cash flow and an attractive return on investment. Operating income of $70 million was up markedly. With the sale of its Arizona operations, APAC intensified its emphasis on traditional markets. A concerted effort to enhance market position and reduce costs in current markets will drive future earnings growth. During 1994, APAC made four small but strategic acquisitions in support of existing market niches.

As the nation's largest highway contractor and a leading supplier of construction materials, APAC is a prime beneficiary of an expanding U.S. construction market. Increased public funding and a revitalized economy are spurring growth nationwide. Even stronger conditions prevail in parts of the Southeast. At year-end, APAC's backlog stood at $554 million, up 12 percent for continuing operations from 1993.

Despite a recent trend toward consolidation, the U.S. construction market remains largely fragmented, with no single company enjoying significant national market share. As a result, profitability hinges on understanding and reacting quickly to local market dynamics. APAC operates through 32 divisions in 13 states. Each division is geared to compete in its individual market environment. At the same time, the group is aggressively marketing its capabilities to customers with construction needs in multiple APAC markets.

APAC has decades of experience in most of the markets it serves. The group constantly assesses its future needs, acquiring or leasing strategic material sources and repositioning its asphalt plants to serve areas with high growth potential. A superior safety record, achieved through aggressive training programs, also helps the group minimize costs. APAC has one of the industry's lowest lost-time incident rates.

With advances in construction equipment, control processes and materials, the industry is moving toward greater technical orientation. APAC's highly skilled engineers and technicians, along with the capacity for technology transfer between divisions, provide a decided advantage.

Increased infrastructure spending and an expanding economy should spur earnings growth. Meanwhile, a continuous emphasis on cost control, asset management and traditional market development should lead to consistently strong returns on the corporation's investment.

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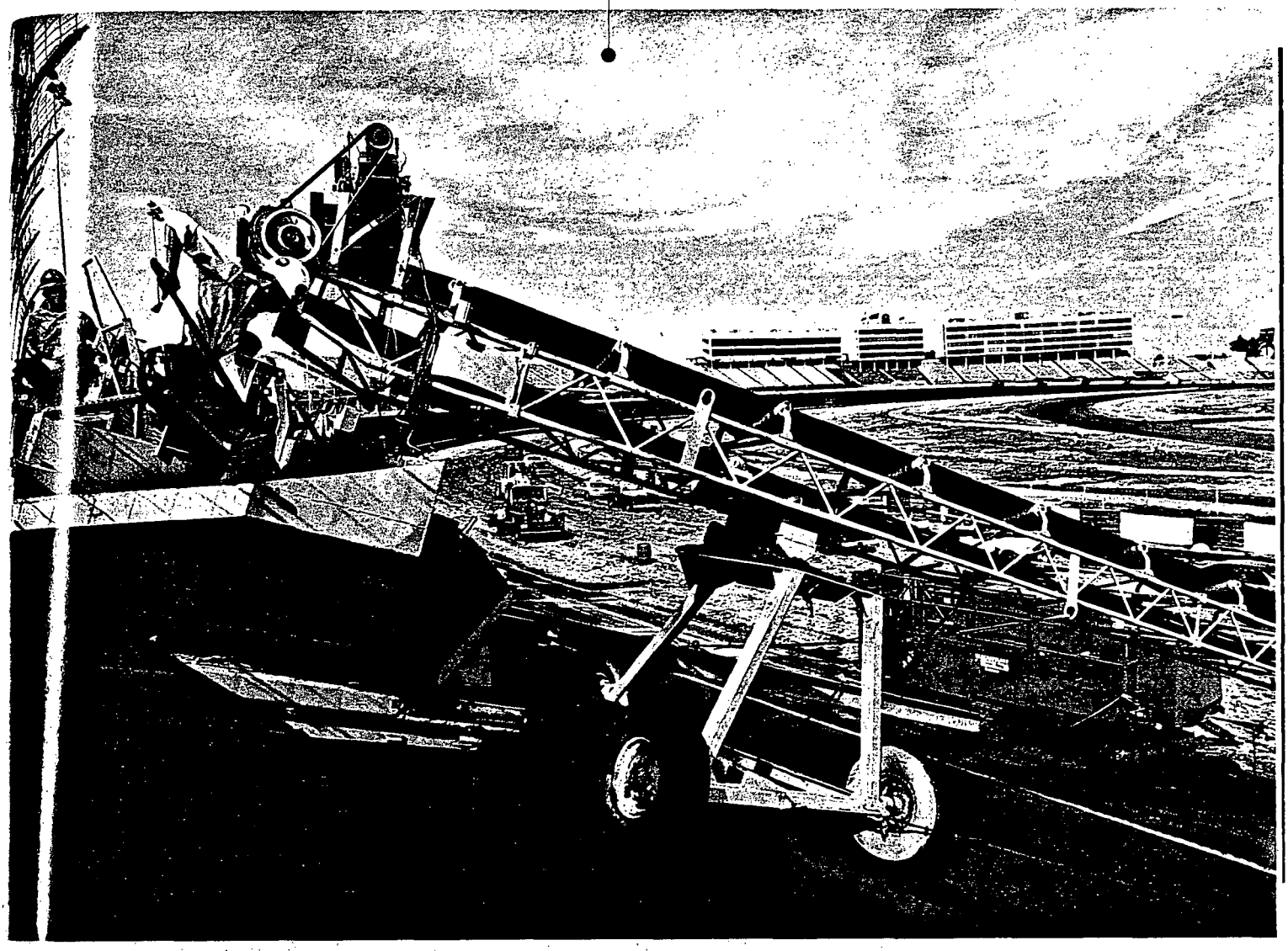
BUILDING ON A LONG-STANDING REPUTATION FOR QUALITY AND TECHNICAL EXPERTISE, THE APAC GROUP WAS SELECTED TO PAVE THE CHARLOTTE MOTOR SPEEDWAY, AS WELL AS NASCAR RACE TRACKS IN ATLANTA; DARLINGTON, S.C.; AND ROCKINGHAM, N.C.



APAC IS A LEADING SUPPLIER OF CONSTRUCTION MATERIALS. ALONG WITH 15 QUARRIES, THE GROUP OPERATES 31 OTHER AGGREGATE PRODUCTION FACILITIES, 38 READY-MIX CONCRETE PLANTS AND 144 HOT-MIX ASPHALT PLANTS.

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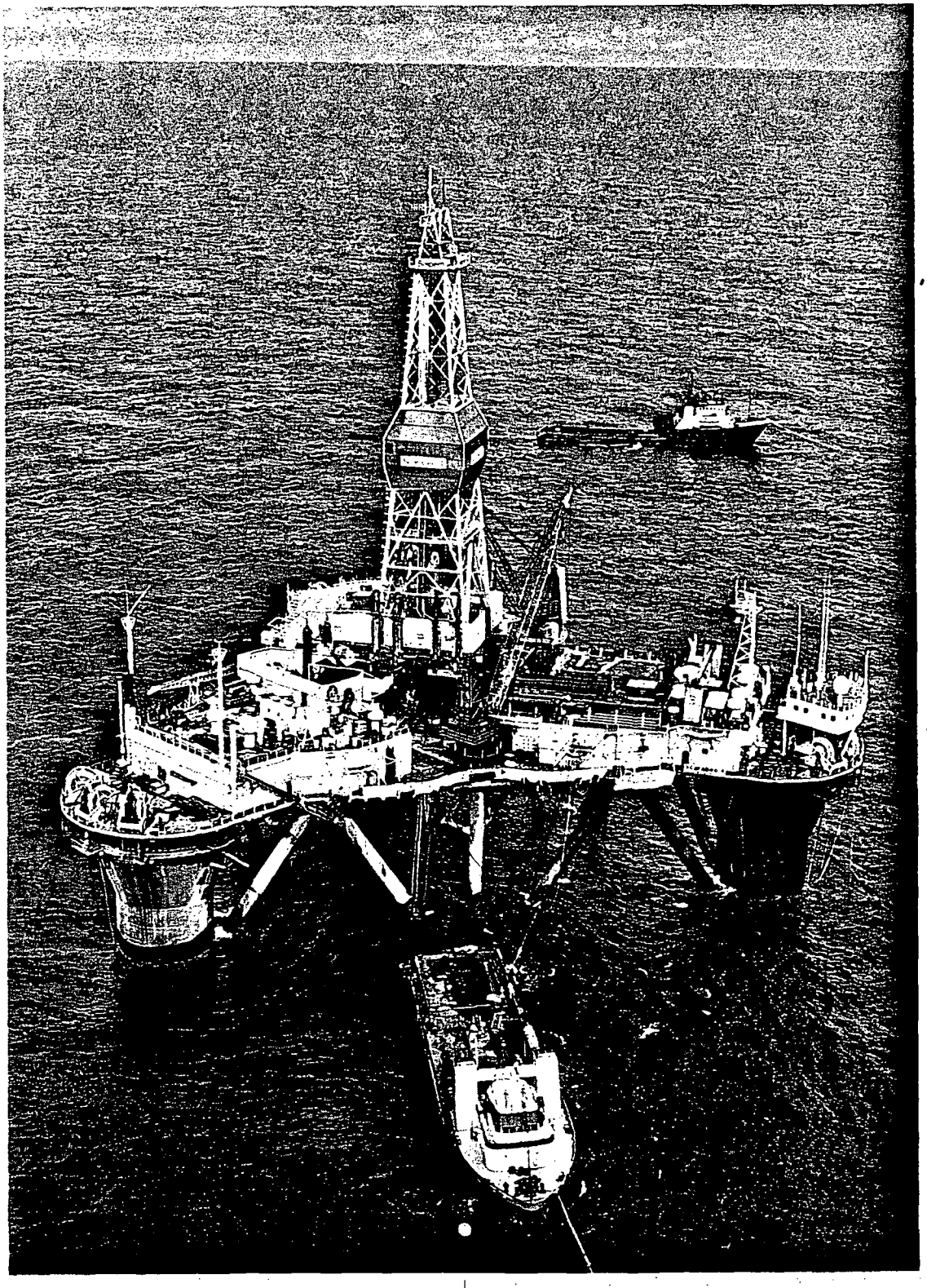


EMPLOYING THE SCARABEO SEMI-SUBMERSIBLE DRILLING RIG, ASHLAND EXPLORATION DRILLED THE FIRST EXPLORATORY WELL ON ITS NEW NIGERIAN BLOCKS IN 1994. LOCATED 40 MILES OFFSHORE IN 450 FEET OF WATER, THE WELL RESULTED IN A POTENTIALLY COMMERCIAL DISCOVERY.

842600629

ASHLAND EXPLORATION

IMPORTANT UPSTREAM PRESENCE

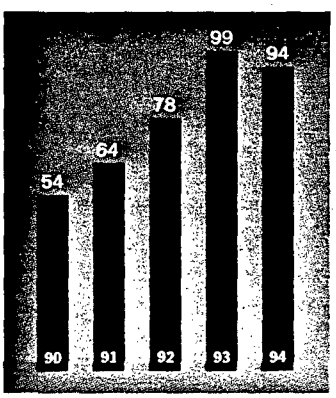
BUILDING ON PAST SUCCESSES, ASHLAND EXPLORATION IS EXPLOITING ITS STRONG DOMESTIC NATURAL GAS POSITION, WHILE AT THE SAME TIME TAKING STEPS TO RESTORE ITS BASE OF INTERNATIONAL CRUDE OIL RESERVES, PRODUCTION AND EARNINGS.

Ashland Exploration's operating income of $28 million was down from last year, reflecting the effects of lower volumes and prices in 1994, and a favorable contract settlement in 1993. However, tax credits related to its Appalachian production added $10 million to net income in 1994 and could provide $48 million more by the time the tax credit program expires in 2002. Ashland Exploration's $34 million contribution to the corporation's net income was virtually unchanged for the year.

Ashland Exploration's biggest development of 1994 came in Nigeria, where the company made a potentially commercial discovery in the first of a multi-well exploratory effort. The initial Nigerian discovery well tested from the Agbada formation at a rate of 6,184 barrels per day through a 48/64 inch choke with 900-pounds-per-square-inch flowing pressure from a 10-foot perforated interval. The depth was 6,540 feet, and the oil measured 39 degrees API gravity.

The well is located on one of two blocks, together comprising 600,000 acres, that Ashland acquired in 1992 under a production-sharing contract with the Nigerian National Petroleum Corporation. After completing seismic evaluation on the blocks, Ashland entered into a joint venture agreement with a major international oil company that was assigned a 50-percent working interest in the contract. In early 1995, Ashland Exploration will spud a second well to further appraise the commercial potential of the blocks. Additional wells are planned.

U.S. NATURAL GAS PRODUCTION
(IN MILLIONS OF CUBIC FEET A DAY)



Over the past five years, Ashland Exploration has more than doubled its natural gas production. A growing exploratory program in the federal waters of the Gulf of Mexico adds natural gas volumes and the opportunity for larger additions to reserves, production and cash flow. With the aid of 3-D seismic analysis, Gulf Coast exploratory efforts led to reserve additions totaling 2.4 times 1994 production. A highlight of the year was Ashland's new gas field discovery on Vermilion blocks 409 and 410, where four successful wells encountered significant net gas pay zones, some in excess of 100 feet. Ashland has a 50-percent interest in the wells, and initial production is expected to begin in 1996. Ashland Exploration plans to add over 110 wells in Appalachia during 1995, maintaining current production levels in the region. Meanwhile, the company will seek to expand its Appalachian base through strategic acquisitions.

While the ongoing exploratory effort in Nigeria could eventually restore international earnings, existing Nigerian reserves will continue to undergo normal production declines. Currently depressed domestic natural gas prices are expected to improve in response to growing U.S. demand and a more favorable supply/demand balance.

842600630

COAL

LEVERAGING ENERGY MARKET EXPERTISE

WITH HIGHLY EFFICIENT OPERATIONS, ACCESS TO MAJOR MARKETS AND A STRONG RESERVE BASE IN CENTRAL APPALACHIA, ASHLAND'S GROWTH-ORIENTED COAL INVESTMENTS ARE POISED TO CAPITALIZE ON AN IMPROVING DEMAND PICTURE FOR LOW-SULFUR COAL.

Ashland is involved in the coal industry through a 39-percent interest in NYSE-listed Ashland Coal, Inc. and a 50-percent interest in Arch Mineral Corporation. The two companies contributed $13 million in equity income in 1994, despite the adverse effect of a lengthy United Mine Workers' strike that ended in mid-December 1993. Arch Mineral provided equity income of $7 million, compared to a strike-related $10 million equity loss last year. Ashland Coal contributed $6 million in 1994. Last year, Ashland Coal's $27 million equity contribution reflected a $20 million net gain related primarily to tax law changes.

As two of central Appalachia's largest low-sulfur coal producers, Ashland Coal and Arch Mineral stand to benefit from an improving coal market. The strike and severe winter weather depleted utility stockpiles, resulting in higher spot market prices. Demand for low-sulfur coal should increase as the economy grows and utilities implement compliance strategies aimed at meeting new 1995 clean air requirements.

ASHLAND COAL

Ashland Coal is a highly efficient producer and marketer of low-sulfur, central Appalachian steam coal for power plants in the Eastern United States and Europe. The company has 723 million tons of proven and probable low-sulfur reserves located in southern West Virginia and eastern Kentucky. Production totaled 17 million tons in 1994 and should increase to approximately 20 million tons in 1995. Independent operating subsidiaries include Coal-Mac, Inc.; Dal-Tex Coal Corporation; Hobet Mining, Inc.; and Mingo Logan Coal Company.

With its highly efficient mines and large-scale mining technology, Ashland Coal enjoys a competitive advantage as a low-cost producer. The company has an average productivity rate more than 50 percent higher than the regional average. Furthermore, the company's low-cost position should benefit from more favorable overburden ratios at key surface mines, increasing seam heights at its Mingo Logan longwall mine, and enhanced blending capabilities at a Hobet operation.

In 1994, Ashland Coal opened a contract deep mine at a Hobet complex. The new mine will produce a higher Btu coal that will be blended with raw coal from the surface mine, thus reducing coal-cleaning requirements and costs. An $11 million project to improve coal handling and storage facilities at the complex is also under way.

Ashland Coal's operations are strategically positioned to provide broad access to major transportation systems serving both eastern U.S. and world markets. A 17.5 percent interest in Dominion Terminal Associates, a modern, ground-storage-to-vessel loading facility in Newport News, Va., provides 3.5 million tons of annual throughput capacity for both export and U.S. coastal utilities.

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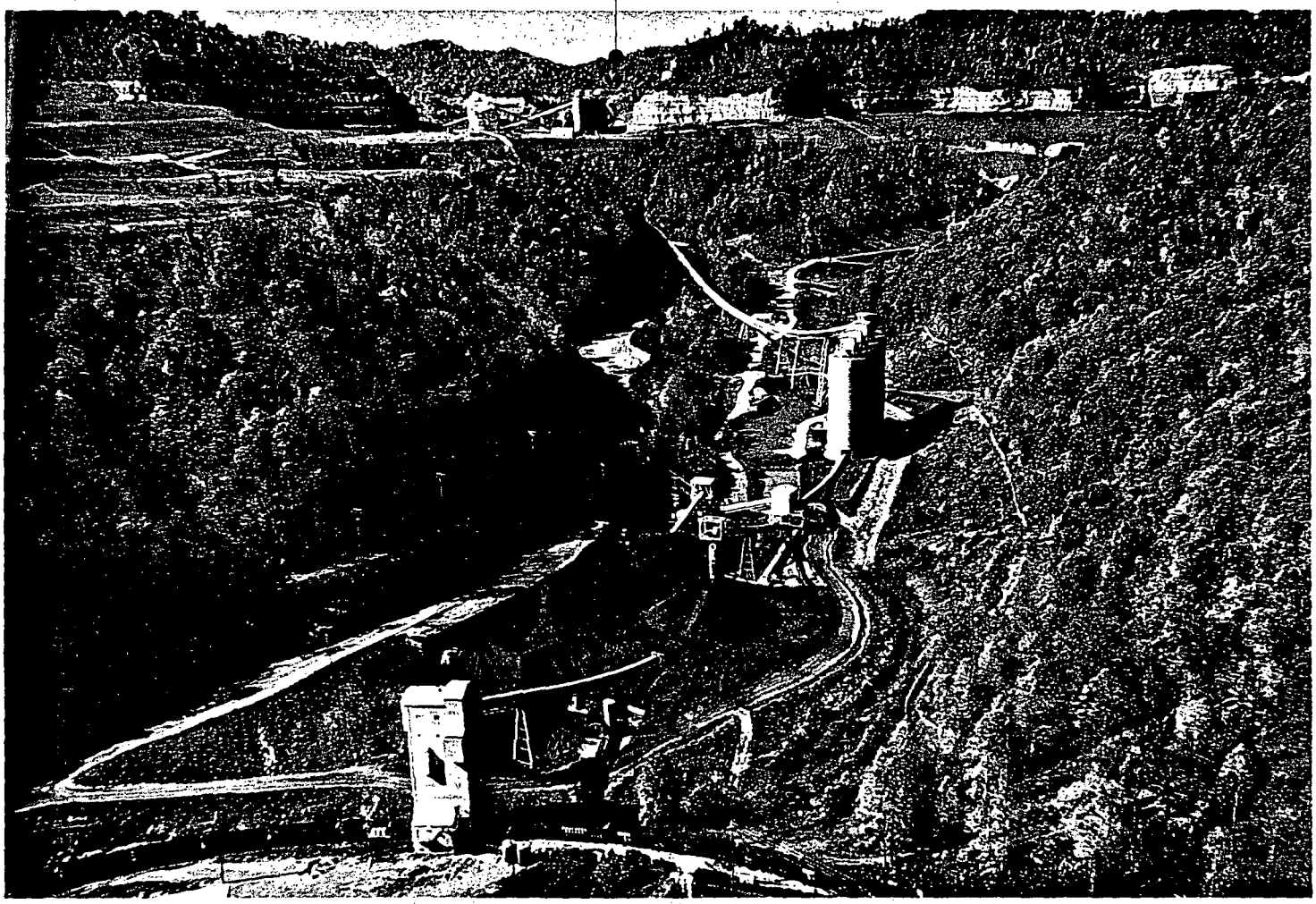
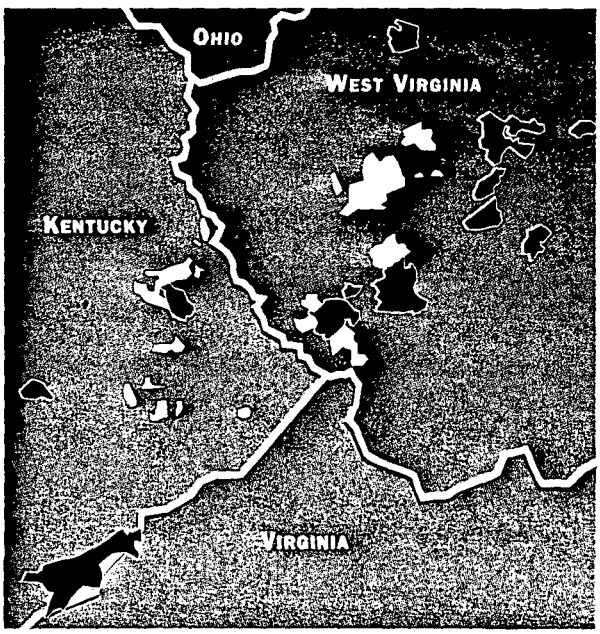
With 7 million tons of annual capacity, Ashland Coal's Mingo Logan mining complex is the largest in central Appalachia. It is also one of the most efficient, with an average productivity rate 50 percent higher than the regional average.





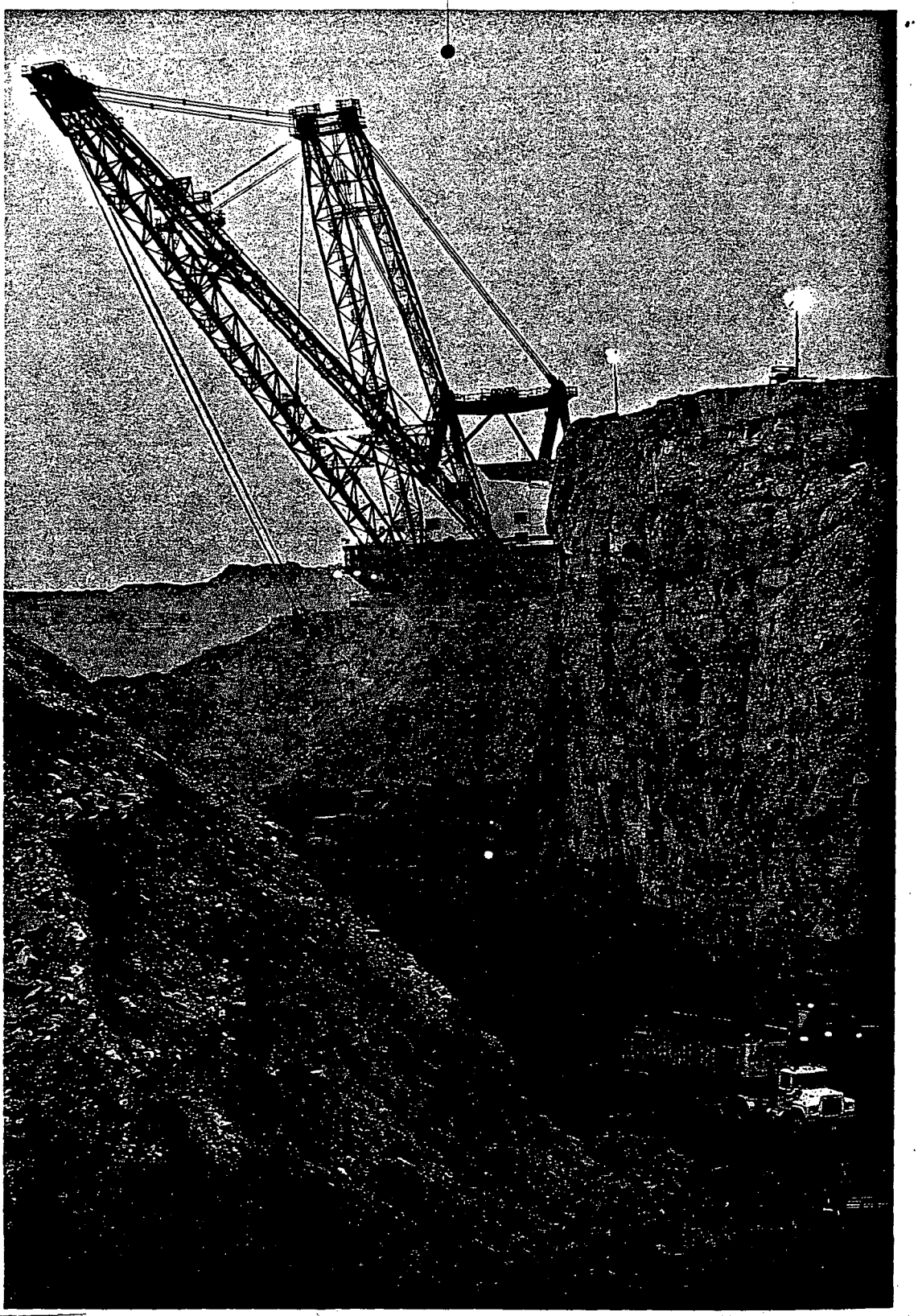
Central Appalachian Properties

■ Arch Mineral

□ Ashland Coal

842600632

ARCH MINERAL'S SAMPLES MINE IN SOUTHERN WEST VIRGINIA IS FAST BECOMING ONE OF THE REGION'S MOST PRODUCTIVE MINES. THE INSTALLATION AND START-UP OF A 100-CUBIC-YARD DRAGLINE DURING 1994 DOUBLED THE MINE'S CAPACITY.



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Domestically, Ashland Coal and its subsidiaries shipped coal to 58 power plants and 26 industrial customers in 20 states during 1994. The company also shipped 1.7 million tons of steam and metallurgical coal to 10 other countries, principally in Europe. Ashland Coal will seek to expand this position as overseas economic growth resumes.

With the strike now over, Ashland Coal intends to resume the growth that has characterized the company since its initial public offering in 1988. Ashland Coal has attractive options to develop new properties and expand low-cost production at relatively low capital costs. It will also build on its record of successful acquisitions.

Arch Mineral

Through its wholly owned subsidiaries, Arch Mineral is a major producer of bituminous coal through highly efficient operations in Kentucky, West Virginia, Illinois and Wyoming. Despite the strike, Arch produced over 23 million tons of coal in fiscal 1994. That total should increase materially in 1995. Arch has a reserve base of roughly 1.6 billion tons of coal, with 54 percent of that total comprised of low-sulfur, central Appalachian steam coal. An additional 8 percent is low-sulfur Western coal.

To maintain its position as a low-cost producer, Arch continues to upgrade its advanced, large-scale mining technology. During 1994, Arch moved forward on a major capital program at its Samples Mine in southern West Virginia. The July start-up of a 100-cubic-yard dragline doubled the mine's capacity. With the completion in early 1995 of a rail load-out facility and a new computerized ash analyzer, Arch will blend coals to precise customer specifications.

At its Medicine Bow, Wyo., mine, the company employs a 650-foot, continuous highwall mining and haulage system. Known as the Archveyor, this system provides significant advantages over traditional auguring methods.

Arch's Big Sandy River Terminal provides competitive access to Southeastern and Midwestern utility markets. Located near the confluence of the Big Sandy and Ohio rivers in West Virginia, the terminal has an annual capacity of 6 million tons. The terminal receives coal by rail and truck and ships it via barge.

In 1994, Arch enhanced this flexibility with the acquisition of strategic Agipcoal USA assets. These operations provide 5 million tons of production served by the Norfolk Southern Railway. The Norfolk Southern delivers coal to utilities in the Southeast, a significant and growing segment of Arch's customer base. The transaction also provides infrastructure that could serve adjacent reserves.

The consolidation of the coal industry is creating opportunities for expansion. Arch Mineral will seek to capitalize on this environment through the addition of low-cost capacity and reserves. Meanwhile, the low-sulfur coal market should strengthen further as the economy expands and environmental demands on electric utilities intensify.

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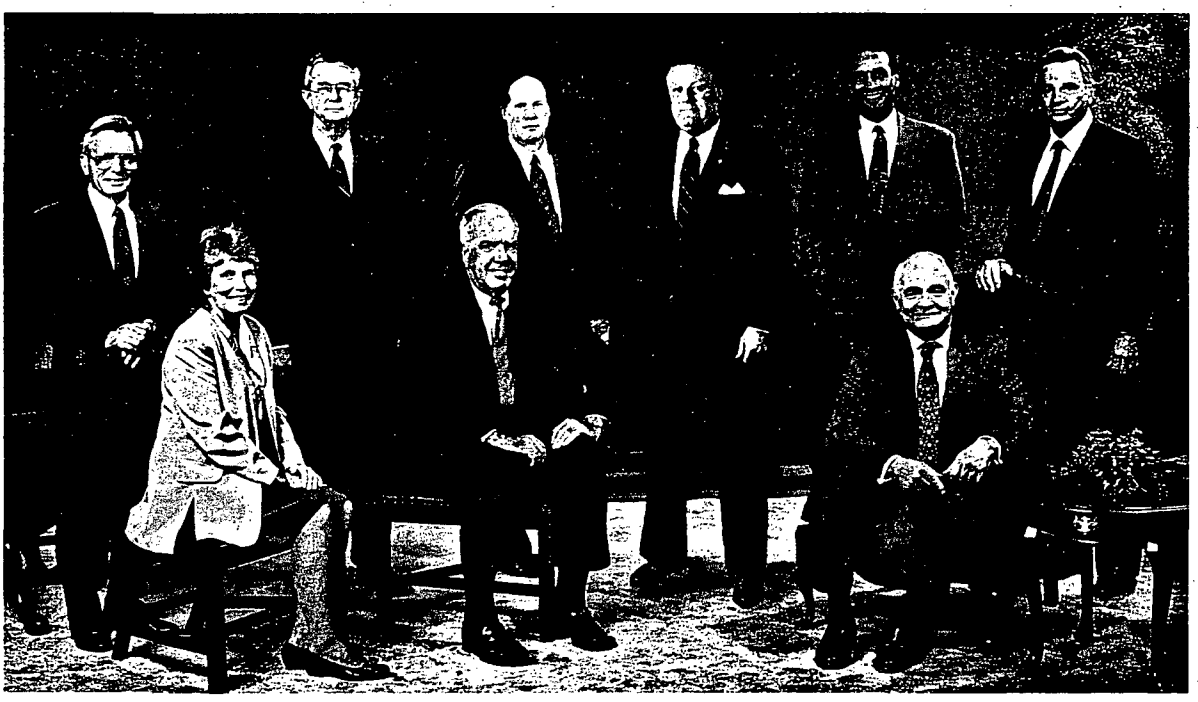
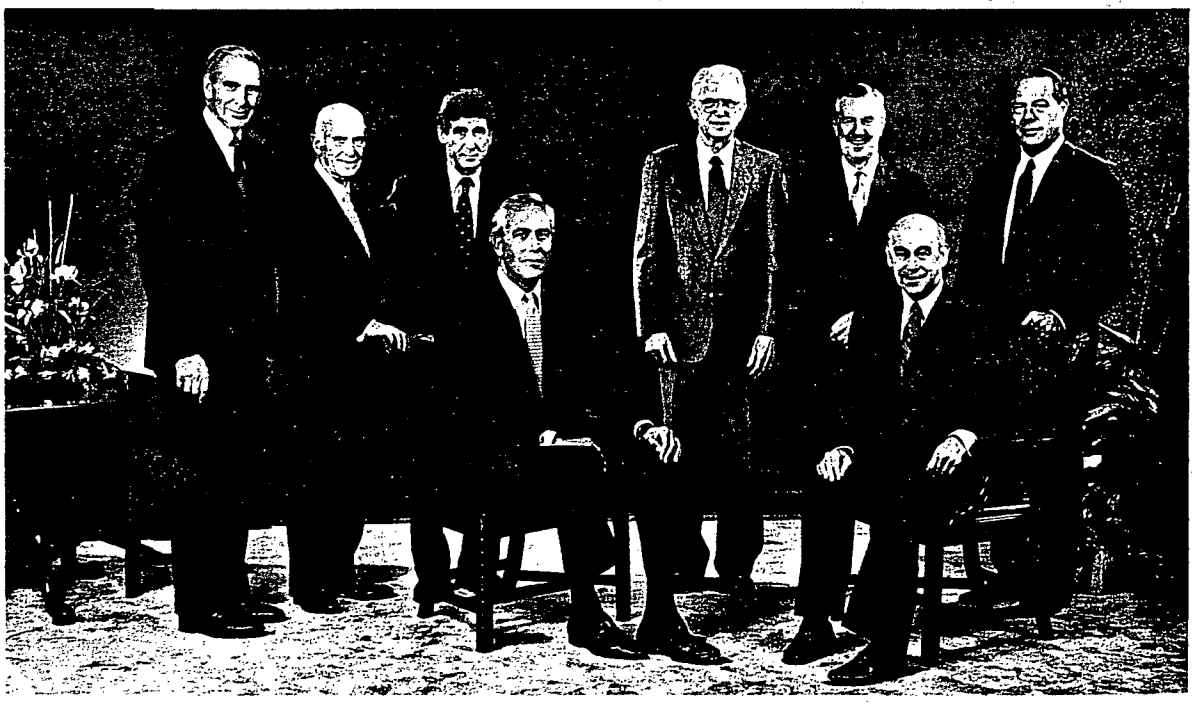
DIRECTORS

ASHLAND'S 17-MEMBER GOVERNING BOARD



FROM LEFT TO RIGHT: FRANK C. CARLUCCI, JANE C. PFEIFFER, JAMES R. RINEHART, EDMUND B. FITZGERALD, PATRICK F. NOONAN, W. L. ROUSE JR., MANNIE L. JACKSON, JOHN R. HALL, AND JAMES W. VANDEVEER



FROM LEFT TO RIGHT: THOMAS E. BOLGER, JACK S. BLANTON, RALPH E. GOMORY, MICHAEL D. ROSE, DR. ROBERT B. STOBAUGH, JAMES B. FARLEY, PAUL W. CHELLGREN, AND SAMUEL C. BUTLER

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Ashland Oil, Inc.

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MANAGEMENT'S DISCUSSION AND ANALYSIS

ASHLAND OIL, INC. AND SUBSIDIARIES

YEARS ENDED SEPTEMBER 30

(In millions)	1994	1993	1992
SALES AND OPERATING REVENUES			
Petroleum	$ 4,666	$ 4,752	$ 4,848
SuperAmerica	1,706	1,785	1,888
Valvoline	1,000	938	900
Chemical	2,885	2,586	2,488
Construction	1,101	1,116	1,043
Exploration	199	247	262
Intersegment sales	(1,223)	(1,225)	(1,218)
	$10,334	$10,199	$10,211
OPERATING INCOME (LOSS)			
Petroleum	$ 113	$ 56	$ (125)
SuperAmerica	59	65	1
Valvoline	52	56	50
Total Refining and Marketing Group	224	177	(74)
Chemical	125	108	81
Construction	70	53	45
Exploration	28	36	17
General corporate expenses	(80)	(77)	(132)
	$ 367	$ 297	$ (63)
EQUITY INCOME			
Arch Mineral Corporation	$ 7	$ (10)	$ 10
Ashland Coal, Inc.	6	27	13
Other	9	9	10
	$ 22	$ 26	$ 33
OPERATING INFORMATION			
Petroleum			
Product sales (thousand barrels per day)[1]	357.7	350.3	347.4
Refining inputs (thousand barrels per day)[2]	338.4	335.9	337.4
Value of products manufactured per barrel	$ 21.49	$ 23.00	$ 23.81
Input cost per barrel	16.76	19.06	20.48
Refining margin per barrel	$ 4.73	$ 3.94	$ 3.33
SuperAmerica			
Product sales (thousand barrels per day)	70.2	73.8	77.1
Merchandise sales (millions)	$ 519	$ 549	$ 587
Valvoline product sales (thousand barrels per day)[1]	17.9	16.3	16.6
Construction backlog at September 30 (millions)	$ 554	$ 495[3]	$ 500[3]
Exploration			
Net daily production			
Natural gas (million cubic feet)[1]	94.3	99.3	78.3
Nigerian crude oil (thousand barrels)	18.7	21.7	25.9
Sales price			
Natural gas (per thousand cubic feet)	$ 2.42	$ 2.45	$ 2.28
Nigerian crude oil (per barrel)	$ 15.01	$ 17.77	$ 19.21
Arch Mineral Corporation[4]			
Tons sold (millions)	24.3	19.2	21.0
Sales price per ton	$ 26.35	$ 25.26	$ 25.73
Ashland Coal, Inc.[4]			
Tons sold (millions)	18.2	18.0	17.2
Sales price per ton	$ 29.85	$ 29.77	$ 29.80

(1) Includes intersegment sales.
(2) Includes crude oil and other purchased feedstocks.
(3) Amounts have been restated to exclude APAC's Arizona operations which were sold in 1994.
(4) Amounts are reported on a 100% basis for these affiliated companies accounted for on the equity method.

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Results of Operations

Ashland's net income amounted to $197 million in 1994, compared to $142 million in 1993 and a net loss of $336 million in 1992. However, comparisons of these results are affected by various unusual items. The following table shows the effect of unusual items on operating and net income for the three years ended September 30, 1994.

	Operating income (loss)			*Net income (loss)*		
(In millions)	1994	1993	1992	1994	1993	1992
Income before unusual items	$356	$282	$145	$190	$115	$ 64
Special charges						
Voluntary enhanced retirement program	–	–	(31)	–	–	(20)
Asset write-downs	–	–	(64)	–	–	(41)
Riley-related reserves	–	–	(38)	–	–	(23)
Environmental provisions	–	–	(41)	–	–	(25)
Accounting changes	–	–	(34)	–	–	(291)
Other						
Litigation matters	11	–	–	7	–	–
Ashland Coal unusual items	–	–	–	–	18	–
Gain on sale of Petroleum operation	–	15	–	–	9	–
Income (loss) as reported	$367	$297	$ (63)	$197	$142	$(336)

Excluding unusual items, net income amounted to $190 million in 1994, compared to $115 million in 1993. Operating income from Petroleum was up significantly, while record results were achieved by Chemical and Construction. In addition, equity income from Ashland's coal investments showed substantial improvement since the prolonged strike by the United Mine Workers (UMW) was settled in December 1993. The increase in net income from $64 million in 1992 to $115 million in 1993 reflected improvements in most of Ashland's businesses, other than its coal investments which were adversely affected by the UMW strike. While Ashland Petroleum was responsible for the majority of the increase in earnings, SuperAmerica, Valvoline and Chemical each contributed record results.

As a result of difficult conditions in the U.S. economy and the petroleum refining industry, Ashland implemented a voluntary enhanced retirement program in July 1992 to reduce employment levels and lower costs, thereby enhancing its competitive position. In addition, because of lower earnings and the large capital spending requirements for its refineries, Ashland announced a $200 million asset divestiture program during that same year. Various businesses and properties were identified for possible sale, resulting in loss provisions of nearly $24 million, which are included in asset write-downs in the above table. The remaining asset write-downs were related to discontinued operations and a re-evaluation of an enhanced oil recovery project. Reserves were also increased in 1992 for future costs associated with certain custom boilers built by Riley Stoker and other Riley-related matters. Because of higher contract costs and certain settlements during that year, the reserves recognized in prior years were no longer adequate to cover the indemnities provided to the purchaser when Riley was sold in 1990. The environmental provisions reflect adjustments to estimated future environmental costs, primarily in the areas of remediation and replacement of underground storage tanks at older retail marketing locations.

The accounting changes reflected the effect of Ashland's adoption of Financial Accounting Standards Board (FASB) Statements No. 106, "Employers' Accounting for Postretirement Benefits Other Than Pensions," and No. 109, "Accounting for Income Taxes," both effective as of October 1, 1991 (see Note A to the Consolidated Financial Statements). During 1993, Ashland amended its retiree benefit programs and its costs returned to amounts more closely approximating pre-1992 pay-as-you-go levels.

The following table compares operating income before unusual items by segment for the three-year period.

(In millions)	1994	1993	1992
Operating income (loss)			
Petroleum	$113	$ 41	$ (36)
SuperAmerica	59	65	29
Valvoline	52	56	52
Chemical	125	108	96
Construction	70	53	54
Exploration	28	36	33
General corporate expenses	(91)	(77)	(83)
	$356	$282	$145

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PETROLEUM

Operating income of Ashland Petroleum amounted to $113 million in 1994, compared to $41 million in 1993 before unusual items. Ashland Petroleum's strong performance was due to higher margins in its Midwest markets, as well as its actions to improve crude oil selection and other profit enhancement efforts. Margins were strong in the first half of 1994, reflecting very favorable distillate prices concurrent with the implementation of low-sulfur diesel requirements in the December quarter and reduced crude oil costs in the March quarter. Most of the last half of 1994 was adversely affected by increasing crude oil costs, with wholesale product prices not keeping pace. The refineries performed well with crude oil throughput up slightly despite major scheduled turnarounds at two of its refineries. Although refining margins were very volatile for most of the year, such margins did increase from $3.94 a barrel in 1993 to $4.73 a barrel in 1994. This improvement was partially offset, however, by higher turnaround and depreciation costs. Earnings from Scurlock Permian improved considerably, as crude oil gathering and handling margins were up compared to their depressed levels in 1993.

Ashland Petroleum's operating income of $41 million in 1993 excluded a gain of $15 million on the sale of its TPT inland waterways barge operation. Such results rebounded from an operating loss of $36 million in 1992 before unusual items. The improvement reflected an increase in the refining margin from $3.33 a barrel in 1992 to $3.94 a barrel in 1993, resulting from higher asphalt prices, stronger regional product markets, and more selective purchases of crude oils to yield a more profitable product mix. In other operations, results from branded marketing were up considerably, reflecting higher product margins and reduced environmental expenses, while earnings from Scurlock Permian declined due to unusually competitive market conditions that adversely affected gathering and handling volumes and margins.

SUPERAMERICA

Operating income of $59 million for SuperAmerica in 1994 was second only to its record earnings of $65 million achieved in 1993. Gasoline and merchandise margins were at all-time highs and largely offset the volume reductions associated with last year's sale of 80 SuperAmerica stores. Such stores were located in Florida and other non-strategic areas outside markets directly supplied by Ashland Petroleum. At September 30, 1994, 598 SuperAmerica stores were operating, compared to 588 stores in 1993 and 642 stores in 1992. While the number of stores is up at year end in 1994, the average number of stores in operation for the year was actually down 4%, and operations of the newly-opened stores had not yet fully matured.

SuperAmerica achieved record operating income of $65 million in 1993, compared to $29 million in 1992 before unusual items. Improvements in margins for both gasoline and merchandise more than offset the reductions in volumes resulting from the sale of 80 stores during 1993.

VALVOLINE

Valvoline also had its second best year ever, with operating income of $52 million in 1994, compared to last year's record of $56 million. The major factor in the decline was reduced margins on automotive refrigerants resulting from built-up customer inventories. Earnings from Valvoline's branded motor oil business were relatively unchanged as the effects of volume increases were largely offset by reduced margins associated with a continuing shift from packaged products to lower margin bulk sales, and by significant increases in raw material costs during the last half of 1994. International operations were up considerably, spurred in part by the acquisition of Valvoline distributorships in six European countries during 1994. Valvoline Instant Oil Change (VIOC) achieved higher earnings for the second straight year with continued improvements in average car counts and ticket prices. At September 30, 1994, VIOC operated 347 company outlets, compared to 341 in 1993 and 315 in 1992. In addition, the VIOC franchising program continued to expand with 75 outlets open at year-end in 1994, compared to 66 in 1993 and 45 in 1992.

Valvoline's operating income of $56 million in 1993 exceeded its previous record earnings of $52 million in 1992 before unusual items. Improved results from its automotive chemicals businesses and VIOC more than offset lower earnings from branded motor oil sales and international operations. While Valvoline was able to increase its market share slightly in the highly competitive motor oil market, earnings from its branded motor oil business were down 20% due to soft demand and higher marketing expenses. In addition, the results of international operations were adversely affected by currency losses brought on by a strong U.S. dollar. However, the automotive chemical businesses achieved record earnings due to better margins on refrigerant sales and other Pyroil products, while VIOC results improved on the strength of higher average car counts and ticket prices, as well as additional outlets.

CHEMICAL

For the third consecutive year, Ashland Chemical was the leading earnings contributor to Ashland's results with operating income of $125 million in 1994. Such income surpassed Ashland Chemical's previous record earnings of $108 million in 1993, despite incurring higher charges for environmental remediation costs in 1994. Earnings from the distribution businesses were up 22%, principally due to higher sales volumes for thermoplastics. Operating income from the specialty chemicals group increased 25%, with foundry products and water treatment chemicals leading an across the board improvement. Results from petrochemicals were up 15%, with improvements in

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methanol margins more than offsetting the effects of production and weather-related problems on cumene results early in 1994.

Operating income of $108 million in 1993 was a record for Ashland Chemical, exceeding its 1992 earnings of $96 million before unusual items. Earnings from the distribution businesses returned to more normal levels, reflecting integration of the 1992 acquisition of Unocal's chemical distribution business, higher sales volumes and margins for thermoplastics, and increased efficiencies from its redesigned distribution services organization. Although results from most of the specialty chemical businesses improved, the favorable effects were largely offset by lower earnings from water treatment chemicals. Operating income from petrochemicals declined 20%, as higher natural gas feedstocks reduced methanol margins and cumene operations suffered from tighter margins, a temporary shutdown by a major customer and lower sales volumes.

CONSTRUCTION

The APAC construction operations achieved record earnings of $70 million in 1994, compared to $53 million in 1993. Each of its continuing operating regions achieved improvements on the strength of a higher quality backlog, better margins on construction materials and more favorable weather conditions. In addition, APAC's construction operations in Arizona contributed operating income (including a gain on the sale of those operations) of $9 million, which was up from $6 million in 1993. APAC's backlog of $554 million at September 30, 1994, is expected to contain slightly higher margins than last year's backlog of $495 million for its continuing operations.

Operating income from APAC totaled $53 million in 1993, compared to $54 million in 1992 before unusual items. Revenues were up 7%, but the favorable impact was more than offset by poor weather conditions in most of APAC's operating regions in the December 1992 quarter and severe flooding in its Arizona region in the March 1993 quarter.

EXPLORATION

Ashland Exploration's operating income declined from $36 million in 1993 to $28 million in 1994. However, its contribution to Ashland's net income after recognition of tax credits was down only slightly. Operating income from domestic operations was down $19 million, resulting from lower production and prices for both natural gas and crude oil, increased exploration expenses, and the favorable effect of a contract settlement that was included in results for 1993. Operating income from foreign operations improved by $11 million, reflecting lower exploration expenses and improved results from crude oil trading activities. Such factors more than offset the effects of normal declines in Nigerian crude oil production as developed reserves continue to be depleted.

Ashland Exploration generated operating income of $36 million in 1993, compared to $33 million in 1992 before unusual items. Earnings from domestic operations were up $18 million resulting from a 27% increase in natural gas production, higher natural gas sales prices and the favorable effect of a contract settlement. However, results from foreign operations were down $15 million reflecting a decline in crude oil production in Nigeria and additional expenses associated with seismic activity on two offshore Nigerian blocks.

GENERAL CORPORATE EXPENSES

General corporate expenses amounted to $91 million in 1994 before the net effects of favorable settlements and reserves for other litigation matters, compared to $77 million in 1993 and $83 million in 1992. Expenses for 1994 included consulting fees and other expenses related to a corporate-wide cost control program and higher accruals for performance-based compensation. Expenses declined from 1992 to 1993 due to the effects of personnel reductions under the voluntary enhanced retirement program implemented in 1992.

OTHER INCOME (EXPENSE)

Interest expense (net of interest income) amounted to $117 million in 1994, $123 million in 1993 and $128 million in 1992. Adjusting for capitalized interest on refinery projects of $9 million in 1993 and $3 million in 1992, net interest costs incurred amounted to $117 million in 1994, $132 million in 1993 and $131 million in 1992. Average debt levels declined significantly in 1994 compared to 1993. Average debt levels were up in 1993 compared to 1992, but the effect was largely offset by lower interest rates on floating-rate debt.

Results of Arch Mineral produced equity income of $7 million in 1994, an equity loss of $10 million in 1993 and equity income of $10 million in 1992. The major factor in the fluctuations was the prolonged strike by the UMW which extended from April into December 1993 and had a significant effect on the comparability of results for both fiscal 1993 and 1994. In addition, equity income from Arch for 1992 included an insurance gain of $8 million resulting from a fire at an Illinois mine. Sales tonnage was up significantly in 1994, largely due to the acquisition of the assets of Agipcoal USA.

Equity income from Ashland Coal for 1993 included a net gain of $20 million resulting from a favorable adjustment to income tax expense due to tax law changes, partially offset by a charge to increase the valuation allowance for certain prepaid royalties. Excluding this unusual gain, equity income from Ashland Coal amounted to $6 million in 1994, $7 million in 1993 and $13 million in 1992. The UMW strike (including the related aftereffects) was the major cause of the reduced earnings for both 1994 and 1993.

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FINANCIAL POSITION

LIQUIDITY

Ashland's financial position has enabled it to obtain capital for its financing needs and maintain investment grade ratings on its senior debt of Baa1 from Moody's and BBB from Standard & Poor's. Ashland has revolving credit agreements providing for up to $350 million in borrowings, none of which were in use at September 30, 1994. At that date, Ashland could issue an additional $227 million in medium-term notes under a shelf registration should future opportunities or needs arise. Ashland also has access to various uncommitted lines of credit and commercial paper markets, and had short-term notes and commercial paper of $72 million outstanding at September 30, 1994. While certain debt agreements contain covenants restricting the amount by which Ashland can increase its indebtedness, such indebtedness could have been increased by up to $724 million at September 30, 1994.

Cash and cash equivalents at September 30, 1994, were $40 million, compared to $41 million for 1993. Cash flows from operations, a major source of Ashland's liquidity, amounted to $454 million in 1994, $250 million in 1993 and $398 million in 1992. The reduction in 1993 resulted principally from increased working capital. This increase included higher receivables and inventories associated with the greater level of business activity in several divisions, as well as higher than normal payables in 1992 related to capital expenditures and the voluntary enhanced retirement program. Cash flows from operations provided over 75% of Ashland's capital requirements for net property additions and dividends during the last three years. The remainder of its capital requirements during this period, plus funds for acquisitions, have come from borrowings, the issuance of convertible preferred stock, and the sale of operations.

Property additions amounted to $1,312 million during the last three years and are summarized in the Information by Industry Segment on page 59. Expenditures by Ashland Petroleum amounted to 54% of the combined total for 1992 and 1993, as the refineries were upgraded to produce cleaner-burning fuels and to meet tougher environmental regulations. Accordingly, capital expenditures by Ashland's related energy and chemical businesses were curtailed to some extent during those years to meet the capital needs of the refineries. With the completion of various refinery units in 1993, investments in these energy and chemical businesses were accelerated, accounting for nearly 60% of Ashland's capital expenditures during 1994.

Long-term borrowings provided funds of $664 million during the last three years, including the issuance of $332 million of medium-term notes and $250 million of 8.80% senior debentures. The proceeds from these debt issues, as well as $293 million from the issuance of convertible preferred stock in 1993, were used to retire $600 million of long-term debt (based on their scheduled maturities or opportunities for lower interest rates) and to partially fund the capital expenditure program. Cash flows were also supplemented as necessary by the issuance of short-term notes and commercial paper.

Cash requirements for acquisitions amounted to $172 million since 1991, related primarily to the acquisition of Unocal's chemical distribution business in 1992, Valvoline's European distributorships in 1994 and several small chemical and construction companies. Proceeds from the sale of operations generated $196 million during the last three years, including divestitures of APAC's construction operations in Arizona, 80 SuperAmerica stores, various assets acquired in the acquisition of The Permian Corporation in 1991, and Ashland Petroleum's TPT inland waterways barge operation.

Investment purchases, sales and maturities relate primarily to the turnover in the debt securities held by Ashland's captive insurance companies. The net cash outflow related to these transactions in the last three years reflected the increase in the investment portfolios of these companies.

Working capital at September 30, 1994, was $483 million and liquid assets (cash, cash equivalents and accounts receivable) amounted to 81% of current liabilities at that date. Ashland's working capital is significantly affected by its use of the LIFO method of inventory valuation, which valued such inventories at $395 million below their replacement costs at September 30, 1994.

CAPITAL RESOURCES

During fiscal 1995, Ashland anticipates capital expenditures of approximately $425 million. Ashland Petroleum's capital expenditures are expected to decline to under 40% of the total, as additional capital is directed to growth opportunities in Ashland's related energy and chemical businesses. In addition, dividends are estimated at about $85 million in 1995 based on shares currently outstanding and the recently announced increase in Ashland's annual common dividend rate from $1.00 a share to $1.10 a share, effective December 15, 1994. Ashland anticipates meeting over 80% of its 1995 capital requirements for property additions and dividends from internally generated funds. External financing will likely be necessary to provide funds for the remainder of such requirements and for scheduled maturities of $61 million of long-term debt. However, debt as a percent of Ashland's capitalization is not expected to change significantly as a result of these capital requirements for 1995.

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Ashland's capitalization at September 30, 1994, consisted of debt due within one year (4%), long-term debt (44%), deferred income taxes (1%), convertible preferred stock (9%) and common stockholders' equity (42%). At that date, long-term debt included $87 million of floating-rate debt and the interest rates on an additional $430 million of fixed-rate debt were converted to floating rates through interest rate swap agreements. As a result, interest costs for 1995 will fluctuate with short-term interest rates on about 35% of Ashland's long-term debt, as well as on any short-term notes and commercial paper.

ENVIRONMENTAL MATTERS

Federal, state and local laws and regulations relating to the protection of the environment have resulted in higher operating costs and capital investments by the industries in which Ashland operates. Because of the continuing trend toward greater environmental awareness and increasingly stringent regulations, Ashland believes that expenditures for environmental compliance will continue to have a significant effect on the conduct of its businesses. Although it cannot accurately predict how these developments will affect future operations and earnings, Ashland does not believe the nature and significance of its costs will vary significantly from those of its competitors in the petroleum and chemical industries.

Ashland has invested heavily in its refineries since 1989, primarily to equip them to make new federally-mandated fuels and to meet tougher environmental regulations related to air emissions. During 1993, Ashland completed five major units central to this effort. These units enabled Ashland to begin producing oxygenated fuels and low-sulfur diesel required for on-highway use as of October 1, 1993. Furthermore, the new units allow Ashland to meet the new reformulated gasoline requirements effective as of January 1, 1995, as well as the air emission regulations being phased in over the next few years.

Capital expenditures for air, water and solid waste facilities amounted to $63 million in 1994, $137 million in 1993 and $162 million in 1992. Based on current environmental regulations, Ashland anticipates such capital expenditures will amount to about $70 million in 1995. Ashland's operating expenditures for environmental remediation and compliance amounted to $140 million in 1994, $148 million in 1993 and $138 million in 1992, and are expected to be around $160 million in 1995. Compliance expenditures do not include the increased costs of additives, such as MTBE and ethanol, required to meet the oxygenated fuel requirements.

Environmental reserves are subject to considerable uncertainties which affect Ashland's ability to estimate its share of the ultimate costs of required remediation efforts. Such uncertainties involve the nature and extent of contamination at each site, the extent of required cleanup efforts under existing environmental regulations, widely varying costs of alternate cleanup methods, changes in environmental regulations, the potential effect of continuing improvements in remediation technology, and the number and financial strength of other potentially responsible parties at multiparty sites. As a result, charges to income for environmental liabilities could have a material effect on results of operations in a particular quarter or fiscal year as assessments and remediation efforts proceed or as new remediation sites are identified. However, such charges are not expected to have a material adverse effect on Ashland's consolidated financial position, cash flow or liquidity.

OUTLOOK

Refinery margins remain very volatile and natural gas prices are currently depressed. With these factors and the divestiture of APAC's construction operations in Arizona, it will be difficult to repeat the strong results Ashland achieved in last year's December quarter. However, the related energy and chemical businesses are expected to continue showing good results.

Not every refiner has been willing or able to add the expensive infrastructure needed to produce cleaner-burning fuels. As a result, the rationalization of the U.S. refining industry will likely continue. In addition, the implementation of reformulated gasoline and other alternatives for meeting local air quality goals may move gasoline more toward a specialty, rather than a commodity product. Furthermore, as gasoline grades proliferate, limitations imposed by pipelines may create less transparent, more regionalized marketplaces. With Ashland's efficient transportation system, the ability of its refineries to upgrade crude oil into higher value products, the regional advantage usually enjoyed by Midwest markets and the trend toward "designer" gasolines, the long-term outlook for Ashland's refining margins has improved.

Since regulatory compliance expenditures have peaked for now, Ashland's discretionary cash flow position has improved. Ashland plans to continue capitalizing on its cash flow position by substantially increasing its investment in growth opportunities in Ashland's related energy and chemical businesses, as well as strengthening its competitive position in Ashland Petroleum by upgrading refinery streams and improving its marketing and transportation facilities.

During the next five years, SuperAmerica plans to add up to 200 new stores in areas supplied by Ashland Petroleum's refineries, increasing its share in strategic markets where it is already a leader and distributing a growing percentage of Ashland Petroleum's gasoline production. Valvoline recently expanded its presence in the $1.7 billion U.S. automotive chemicals market by acquiring Zerex, the nation's No. 2 brand of antifreeze, and will continue expanding VIOC and its international operations. Ashland Chemical will emphasize integrated marketing efforts targeting its North American customers and a growing international sales base.

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Increased infrastructure spending and an expanding economy should benefit APAC's efforts to build its position in existing markets. Although Ashland Exploration's earnings may continue to decline until its Nigerian reserves are replaced, the results were promising for the first well drilled in the two offshore Nigerian blocks acquired in 1992. Ashland Exploration plans to drill two additional wells in fiscal 1995 to further appraise the commercial potential of these blocks.

Efficient operations, access to major markets and a strong reserve base in central Appalachia position Arch Mineral and Ashland Coal to capitalize on an improving demand picture for low-sulfur coal. The outlook for continued growth at both companies is strong and, with the coal strike behind them, represents one of Ashland's best opportunities for improved earnings in 1995. Ashland continues to explore opportunities for enhancing the benefits derived from its coal investments.

EFFECTS OF INFLATION AND CHANGING PRICES

Ashland's consolidated financial statements are prepared on the historical cost method of accounting and, as a result, do not reflect changes in the dollar's purchasing power. Although annual inflation rates have been low in recent years, Ashland's results are still affected by the cumulative inflationary trend from prior years.

In the capital-intensive industries in which Ashland operates, replacement costs for its properties would generally exceed their historical costs. Accordingly, depreciation, depletion and amortization expense would be greater if it were based on current replacement costs. However, since replacement facilities would reflect technological improvements and changes in business strategies, such facilities would be expected to be more productive than existing facilities, mitigating somewhat the increased depreciation expense.

Ashland uses the last-in, first-out (LIFO) method to value a substantial portion of its inventories to provide a better matching of revenues with current costs. However, LIFO values such inventories below their replacement costs.

Monetary assets (such as cash, cash equivalents and accounts receivable) lose purchasing power as a result of inflation, while monetary liabilities (such as accounts payable and indebtedness) result in a gain because they can be settled with dollars of diminished purchasing power. Ashland's monetary liabilities exceed its monetary assets, which results in net purchasing power gains and provides a hedge against the effects of future inflation.

QUARTERLY FINANCIAL INFORMATION

The following table presents quarterly financial information and per share data relative to Ashland's common stock.

Quarters ended	*December 31*		*March 31*		*June 30*		*September 30*	
(In millions except per share data)	1993	1992	1994	1993	1994	1993	1994	1993
Sales and operating revenues	$2,572	$2,555	$2,207	$2,386	$2,703	$2,605	$2,853	$2,653
Operating income	120	57	68	30[1]	72	105	107[2]	104
Net income	58	25	33	1[1]	44	50	61[2]	67[3]
Earnings per share	.90	.41	.47	.01	.65	.81	.93	1.00
Common dividends per share	.25	.25	.25	.25	.25	.25	.25	.25
Market price per common share								
High	35⅝	27⅞	44½	29¼	42¾	27¾	37⅞	34⅜
Low	31	23⅜	34	25⅝	33½	24¼	33¼	25⅜

(1) A gain on the sale of TPT, an inland waterways barge operation, increased operating income by $15 million and net income by $9 million in the quarter ended March 31, 1993.

(2) A net gain related to litigation matters increased operating income by $11 million and net income by $7 million in the quarter ended September 30, 1994.

(3) A net gain for Ashland Coal resulting from a favorable adjustment to income tax expense due to tax law changes, partially offset by a charge to increase the valuation allowance for certain prepaid royalties, increased net income by $18 million in the quarter ended September 30, 1993.

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STATEMENTS OF CONSOLIDATED INCOME

ASHLAND OIL, INC. AND SUBSIDIARIES
YEARS ENDED SEPTEMBER 30

(In millions except per share data)	1994	1993	1992
REVENUES			
Sales and operating revenues (including excise taxes)	$10,334	$10,199	$10,211
Other	48	57	40
	10,382	10,256	10,251
COSTS AND EXPENSES			
Cost of sales and operating expenses	7,742	7,951	8,210
Excise taxes on products and merchandise	877	645	659
Selling, general and administrative expenses	1,021	993	1,023
Depreciation, depletion and amortization	295	293	290
General corporate expenses	80	77	132
	10,015	9,959	10,314
OPERATING INCOME (LOSS)	367	297	(63)
OTHER INCOME (EXPENSE)			
Interest expense (net of interest income) – Notes A and F	(117)	(123)	(128)
Equity income – Note D	22	26	33
INCOME (LOSS) BEFORE INCOME TAXES AND THE CUMULATIVE EFFECT OF ACCOUNTING CHANGES	272	200	(158)
Income taxes (credit) – Note H	75	58	(90)
INCOME (LOSS) BEFORE THE CUMULATIVE EFFECT OF ACCOUNTING CHANGES	197	142	(68)
Cumulative effect of accounting changes – Note A	–	–	(268)
NET INCOME (LOSS)	$ 197	$ 142	$ (336)
EARNINGS (LOSS) PER SHARE – Note A			
Primary			
Income (loss) before the cumulative effect of accounting changes	$ 2.94	$ 2.26	$ (1.18)
Cumulative effect of accounting changes	–	–	(4.57)
Net income (loss)	$ 2.94	$ 2.26	$ (5.75)
Assuming full dilution			
Income (loss) before the cumulative effect of accounting changes	$ 2.79	$ 2.20	$ (1.18)
Cumulative effect of accounting changes	–	–	(4.57)
Net income (loss)	$ 2.79	$ 2.20	$ (5.75)
AVERAGE COMMON SHARES AND EQUIVALENTS OUTSTANDING			
Primary	61	59	58
Assuming full dilution	72	66	58

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CONSOLIDATED BALANCE SHEETS

ASHLAND OIL, INC. AND SUBSIDIARIES
SEPTEMBER 30

(In millions)	1994	1993
ASSETS		
CURRENT ASSETS		
Cash and cash equivalents – Note A	$ 40	$ 41
Accounts receivable (less allowances for doubtful accounts of $23 million in 1994 and $20 million in 1993)	1,323	1,178
Construction completed and in progress – at contract prices	55	51
Inventories – Note A	601	553
Deferred income taxes – Note H	71	78
Other current assets	81	72
	2,171	1,973
INVESTMENTS AND OTHER ASSETS		
Investments in and advances to unconsolidated affiliates – Note D	291	280
Investments of captive insurance companies – Note A	181	185
Cost in excess of net assets of companies acquired (less accumulated amortization of $32 million in 1994 and $31 million in 1993)	80	65
Other noncurrent assets	276	279
	828	809
PROPERTY, PLANT AND EQUIPMENT		
Cost		
Petroleum	2,911	2,790
SuperAmerica	459	440
Valvoline	273	250
Chemical	633	573
Construction	528	582
Exploration (successful efforts method)	943	924
Corporate	151	146
	5,898	5,705
Accumulated depreciation, depletion and amortization	(3,082)	(2,935)
	2,816	2,770
	$5,815	$5,552

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See Notes to Consolidated Financial Statements.

(In millions)	1994	1993
LIABILITIES AND STOCKHOLDERS' EQUITY		
CURRENT LIABILITIES		
Debt due within one year		
Notes payable to banks	$ 57	$ 42
Commercial paper	15	35
Current portion of long-term debt	61	82
Trade and other payables	1,520	1,418
Income taxes	35	42
	1,688	1,619
NONCURRENT LIABILITIES		
Long-term debt (less current portion) – Notes E and F	1,391	1,399
Accrued pension and other postretirement benefits – Note K	515	511
Reserves of captive insurance companies	173	173
Deferred income taxes – Note H	30	44
Other long-term liabilities and deferred credits	423	351
Commitments and contingencies – Notes F, G and L		
	2,532	2,478
STOCKHOLDERS' EQUITY – Notes E, I and J		
Preferred stock, no par value, 30 million shares authorized		
Convertible preferred stock, 6 million shares issued, $300 million liquidation value	293	293
Common stockholders' equity		
Common stock, par value $1.00 per share		
Authorized – 150 million shares		
Issued – 61 million shares in 1994 and 60 million shares in 1993	61	60
Paid-in capital	159	143
Retained earnings	1,126	1,008
Loan to leveraged employee stock ownership plan (LESOP)	(33)	(33)
Prepaid contribution to LESOP	–	(6)
Other	(11)	(10)
Total common stockholders' equity	1,302	1,162
	1,595	1,455
	$5,815	$5,552

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STATEMENTS OF CONSOLIDATED COMMON STOCKHOLDERS' EQUITY

ASHLAND OIL, INC. AND SUBSIDIARIES

(In millions)	*Common stock*	*Paid-in capital*	*Retained earnings*	*Loan to LESOP*	*Prepaid contribution to LESOP*	*Other*	*Total*
BALANCE AT OCTOBER 1, 1991	$60	$130	$1,325	$(34)	$(40)	$ 3	$1,444
Net loss			(336)				(336)
Dividends on common stock, $1.00 a share			(58)		(2)		(60)
Increase in equity due to Ashland Coal stock issuance		14					14
Issued common stock under stock incentive plans		2					2
Allocation of LESOP shares to participants					18		18
Other changes						4	4
BALANCE AT SEPTEMBER 30, 1992	60	146	931	(34)	(24)	7	1,086
Net income			142				142
Dividends							
Preferred stock			(6)				(6)
Common stock, $1.00 a share			(59)		(1)		(60)
Decrease in equity due to change in Ashland Coal capital structure		(6)					(6)
Issued common stock under stock incentive plans		2					2
Allocation of LESOP shares to participants					19		19
Other changes		1		1		(17)	(15)
BALANCE AT SEPTEMBER 30, 1993	60	143	1,008	(33)	(6)	(10)	1,162
Net income			197				197
Dividends							
Preferred stock			(19)				(19)
Common stock, $1.00 a share			(60)				(60)
Issued common stock under stock incentive plans	1	16					17
Allocation of LESOP shares to participants					6		6
Other changes						(1)	(1)
BALANCE AT SEPTEMBER 30, 1994	$61	$159	$1,126	$(33)	$ –	$(11)	$1,302

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See Notes to Consolidated Financial Statements.

STATEMENTS OF CONSOLIDATED CASH FLOWS

ASHLAND OIL, INC. AND SUBSIDIARIES
YEARS ENDED SEPTEMBER 30

(In millions)	1994	1993	1992
CASH FLOWS FROM OPERATIONS			
Income (loss) before the cumulative effect of accounting changes	$ 197	$ 142	$ (68)
Expense (income) not affecting cash			
Depreciation, depletion and amortization[1]	308	305	302
Deferred income taxes	2	14	(147)
Undistributed earnings of unconsolidated affiliates	(14)	(12)	(22)
Gain on sale of operations – net of current income taxes	(3)	(12)	–
Other noncash items	39	(3)	208[2]
Change in operating assets and liabilities[3]	(75)	(184)	125
	454	250	398
CASH FLOWS FROM FINANCING			
Proceeds from issuance of long-term debt	77	341	246
Proceeds from issuance of capital stock	17	295	2
Repayment of long-term debt	(109)	(367)	(124)
Increase (decrease) in short-term debt	(5)	(159)	97
Dividends paid	(79)	(66)	(60)
	(99)	44	161
CASH FLOWS FROM INVESTMENT			
Additions to property, plant and equipment	(376)	(432)	(504)
Purchase of operations – net of cash acquired	(62)	(2)	(108)
Proceeds from sale of operations	59	107	30
Disposals of property, plant and equipment	23	32	38
Investment purchases[4]	(335)	(451)	(466)
Investment sales and maturities[4]	335	440	433
	(356)	(306)	(577)
DECREASE IN CASH AND CASH EQUIVALENTS	(1)	(12)	(18)
Cash and cash equivalents – beginning of year	41	53	71
CASH AND CASH EQUIVALENTS – END OF YEAR	$ 40	$ 41	$ 53
DECREASE (INCREASE) IN OPERATING ASSETS[3]			
Accounts receivable	$(153)	$ 26	$ 39
Construction completed and in progress	(3)	(13)	(3)
Inventories	(45)	67	65
Deferred income taxes	–	15	(2)
Other current assets	(7)	(8)	7
Investments and other assets	15	2	28
INCREASE (DECREASE) IN OPERATING LIABILITIES[3]			
Trade and other payables	95	(245)	30
Income taxes	(10)	(20)	(2)
Noncurrent liabilities	33	(8)	(37)
CHANGE IN OPERATING ASSETS AND LIABILITIES	$ (75)	$(184)	$125

(1) Includes amounts charged to general corporate expenses.
(2) Includes noncash charges for unusual items totaling $208 million consisting of provisions for a voluntary enhanced retirement program ($31 million); various asset write-downs including properties held for sale and assets of discontinued operations ($64 million); future environmental cleanup costs ($41 million); reserves for future costs associated with certain custom boilers built by a former engineering subsidiary and other matters ($38 million); and the current year effect of the adoption of a new accounting standard for postretirement benefits ($34 million).
(3) Excludes changes resulting from operations acquired or sold.
(4) Represents primarily investment transactions of captive insurance companies.

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See Notes to Consolidated Financial Statements.

NOTE A – SIGNIFICANT ACCOUNTING POLICIES

PRINCIPLES OF CONSOLIDATION

The consolidated financial statements include the accounts of Ashland and its majority-owned subsidiaries. Investments in joint ventures and 20% to 50% owned affiliates are accounted for on the equity method.

INVENTORIES

(In millions)	1994	1993
Crude oil	$243	$273
Petroleum products	286	258
Chemicals and other products	421	337
Materials and supplies	46	45
Excess of replacement costs over LIFO carrying values	(395)	(360)
	$601	$553

Crude oil, petroleum products and chemicals with a replacement cost of approximately $705 million at September 30, 1994, and $652 million at September 30, 1993, are valued using the last-in, first-out (LIFO) method. The remaining inventories are stated generally at the lower of cost (using the first-in, first-out (FIFO) or average cost method) or market.

PROPERTY, PLANT AND EQUIPMENT

The cost of plant and equipment (other than capitalized exploration and development costs) is depreciated by the straight-line method over the estimated useful lives of the assets. Oil and gas exploration and development costs are accounted for using the successful efforts method. Capitalized exploration and development costs are depleted by the units-of-production method over the estimated recoverable reserves.

Estimated costs of major refinery turnarounds are accrued, while other maintenance and repair costs are expensed as incurred. Maintenance and repair expense amounted to $279 million in 1994, $248 million in 1993 and $246 million in 1992.

ENVIRONMENTAL COSTS

Accruals for environmental costs are recognized when it is probable that a liability has been incurred and the amount of that liability can be reasonably estimated. Such costs are charged to expense if they relate to the remediation of conditions caused by past operations or are not expected to mitigate or prevent contamination from future operations. Accruals are recorded at undiscounted amounts based on experience, assessments and current technology without regard to any third-party recoveries, and are regularly adjusted as environmental assessments and remediation efforts proceed.

EARNINGS PER SHARE

Primary earnings per share is based on net income less preferred dividends divided by the average number of common shares and equivalents outstanding during the respective years. Average common shares outstanding exclude average unallocated shares (423,000 shares in 1994, 973,000 shares in 1993 and 1,522,000 shares in 1992) related to the prepaid contribution to the leveraged employee stock ownership plan. Shares of common stock issuable under stock options are treated as common stock equivalents when dilutive.

Earnings per share assuming full dilution begins with the primary earnings per share computation. Shares issuable upon conversion of the preferred stock and 6.75% subordinated debentures are added to average common shares and equivalents when dilutive. In such cases, net income is further adjusted by adding back preferred dividends and interest expense (net of tax) on these debentures.

DERIVATIVE INSTRUMENTS

Ashland uses commodity futures and option contracts to reduce its exposure to fluctuations in prices for crude oil, petroleum products and natural gas. Gains and losses on these contracts are deferred and accounted for as part of the transactions or activities being hedged.

Ashland uses interest rate swap agreements to obtain greater access to the lower borrowing costs normally available on floating-rate debt, while minimizing refunding risk through the issuance of long-term, fixed-rate debt. Settlements under the swap agreements are recognized as adjustments of interest expense.

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Accounting changes

In 1992, Ashland adopted Financial Accounting Standards (FAS) Board Statement No. 106, "Employers' Accounting for Postretirement Benefits Other Than Pensions," and FAS 109, "Accounting for Income Taxes," both effective as of October 1, 1991. FAS 106 requires that the projected future cost of providing postretirement benefits such as health care and life insurance be recognized as an expense as employees render service instead of when benefits are paid. The adoption of FAS 106 resulted in a net charge to income of $279 million ($415 million before tax), or $4.76 per share, for the cumulative effect of the accounting change for prior periods. FAS 109 superseded FAS 96, which Ashland adopted effective October 1, 1987, and is less restrictive than FAS 96 in allowing recognition of deferred tax assets. However, FAS 109 also requires that such assets be reduced by a valuation allowance unless it is more likely than not that those benefits will be realized. Ashland's adoption of FAS 109 resulted in a net credit to income of $11 million, or $.19 per share, for the cumulative effect of the accounting change for prior periods.

Effective September 30, 1994, Ashland adopted FAS 115, "Accounting for Certain Investments in Debt and Equity Securities." As a result, investments of captive insurance companies are now carried at quoted market prices plus accrued interest. Previously, such investments were carried at cost plus accrued interest. The adoption did not have a significant effect on Ashland's consolidated financial statements.

Other

Cash equivalents include highly liquid investments maturing within three months after purchase. Investments of captive insurance companies are primarily foreign corporate and government debt obligations.

Income related to construction contracts is generally recognized by the units-of-production method, which is a variation of the percentage-of-completion method. Any anticipated losses on such contracts are charged against operations as soon as such losses are estimable.

Costs in excess of net assets of companies acquired are amortized by the straight-line method over periods generally ranging from 10 to 40 years, with an average remaining life of 14 years.

Research and development costs are expensed as incurred ($12 million in 1994, $14 million in 1993 and $14 million in 1992).

Interest is capitalized on projects where construction of an asset takes considerable time and entails substantial expenditures. Capitalized interest amounted to $9 million in 1993 and was not significant in 1994 and 1992.

The Financial Accounting Standards Board has issued a statement which Ashland has not yet adopted, regarding accounting for postemployment benefits. When adopted effective October 1, 1994, this statement will not have a significant effect on Ashland's consolidated financial statements.

Note B – Acquisitions and Divestitures

Acquisitions

In February 1992, Ashland completed the acquisition of Unocal's chemical distribution business for $84 million. The business involves the distribution of a wide range of chemicals, hydrocarbon solvents and specialty ingredients through a nationwide network of distribution centers.

This acquisition and several smaller acquisitions completed in various segments during the last three years did not have a significant effect on Ashland's consolidated financial statements. All these acquisitions have been accounted for as purchases.

Divestitures

In 1992, Ashland completed the sale of its Corpus Christi, Texas, marine terminal, pipelines and gathering systems. These assets were acquired in the 1991 acquisition of The Permian Corporation.

In 1993, Ashland sold various operations, including its TPT inland waterways barge operation, the Thunderbird crude oil common carrier pipeline system in Montana and Wyoming, and 80 SuperAmerica stores in Florida and other non-strategic areas outside markets served by Ashland Petroleum's refineries. In addition, several other smaller operations engaged in petroleum, chemical and construction activities were sold. Proceeds from the sale of these operations totaled $107 million and, except for a pretax gain of $15 million on the sale of TPT, resulted in no significant gain or loss.

In 1994, Ashland completed the sale of APAC's Arizona operations.

Except as indicated, the divestitures discussed above and several smaller divestitures completed in various segments during the last three years did not have a significant effect on Ashland's consolidated financial statements.

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NOTE C – INFORMATION BY INDUSTRY SEGMENT

Ashland's operations are conducted primarily in the United States and are managed along industry segments, which include Petroleum, SuperAmerica, Valvoline, Chemical, Construction and Exploration. In addition, Ashland is involved in the coal industry through equity interests in Arch Mineral Corporation and Ashland Coal, Inc. (see Note D). Information by industry segment is shown on pages 58 and 59.

Petroleum operations are conducted by Ashland Petroleum, one of the nation's largest independent petroleum refiners. In addition to supplying petroleum products to SuperAmerica, Valvoline, Ashland Chemical and APAC, Ashland Petroleum is a leading supplier of petroleum products to the transportation and commercial fleet industries, other industrial customers and independent marketers (including dealers operating under the Ashland® brand name). Principal products include gasoline, distillates and kerosene, asphalt, jet and turbine fuel, lubricants, and heavy fuel oils. Ashland Petroleum also gathers and transports crude oil and petroleum products in connection with its refining and wholesale marketing operations and markets crude oil through Scurlock Permian.

SuperAmerica includes Ashland's retail gasoline and merchandise marketing operations, including the SuperAmerica® chain of high-volume retail stores. Gasoline and merchandise are also sold from outlets operated by SuperAmerica under the Rich® brand name. Operations are conducted primarily in the Ohio Valley and Upper Midwest.

Valvoline is a marketer of automotive and industrial oils, automotive chemicals, filters, rust preventives and coolants with sales in more than 140 countries. In addition, Valvoline is engaged in the "fast oil change" business through outlets operating under the Valvoline Instant Oil Change® and Valvoline Rapid Oil Change® names, and provides environmental services for the collection of used oil, antifreeze and filters.

Chemical businesses are managed by Ashland Chemical, which distributes industrial chemicals, solvents, thermoplastics and resins, and fiberglass materials. Ashland Chemical also manufactures a wide variety of specialty chemicals and certain petrochemicals. Major specialty chemicals include foundry products, water treatment and marine service chemicals, specialty polymers and adhesives, unsaturated polyester resins, and high-purity electronic and laboratory chemicals. Principal petrochemicals include cumene, toluene, xylene, aromatic and aliphatic solvents, propylene, maleic anhydride and methanol.

Construction operations are conducted by the APAC group of companies, which perform contract construction work including highway paving and repair, excavation and grading, and bridge and sewer construction. APAC also produces asphaltic and ready-mix concrete, crushed stone and other aggregate, concrete block and certain specialized construction materials in thirteen southern states.

Exploration operations are conducted by Ashland Exploration, which is engaged in crude oil and natural gas production in the eastern and Gulf Coast areas of the United States and crude oil production in Nigeria.

Arch Mineral produces metallurgical and steam coal from surface and deep mines in Illinois, Kentucky, West Virginia and Wyoming for sale to utility and steel companies. Ashland Coal produces low-sulfur bituminous coal in central Appalachia for sale to domestic and foreign electric utility and industrial markets. Both Arch Mineral and Ashland Coal market coal mined by independent producers.

Certain information with respect to foreign operations follows.

	Total assets		*Income before income taxes*		
(In millions)	1994	1993	1994	1993	1992
Foreign operations					
Petroleum	$ –	$ –	$ 1	$ 2	$ 2
Valvoline	150	74	10	6	9
Chemical	220	174	28	27	34
Exploration	46	45	22	14	28
	$416	$293	$61	$49	$73

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NOTE D – UNCONSOLIDATED AFFILIATES

Affiliated companies accounted for under the equity method include: Arch Mineral Corporation (a 50% owned coal company); Ashland Coal, Inc. (a 39% owned publicly traded coal company); LOOP INC. and LOCAP INC. (18.6% and 21.4% owned corporate joint ventures operating a deepwater offshore port and related pipeline facilities in the Gulf of Mexico); and various other companies. Summarized financial information reported by these affiliates and a summary of the amounts recorded in Ashland's consolidated financial statements follow:

(In millions)	*Arch Mineral Corporation*	*Ashland Coal, Inc.*	*LOOP INC. and LOCAP INC.*	*Other*	*Total*
SEPTEMBER 30, 1994					
Financial position					
Current assets	$ 173	$ 119	$ 36	$ 204	
Current liabilities	(132)	(110)	(86)	(123)	
Working capital	41	9	(50)	81	
Noncurrent assets	797	721	638	203	
Noncurrent liabilities	(713)	(373)	(525)	(96)	
Stockholders' equity	$ 125	$ 357	$ 63	$ 188	
Results of operations					
Sales and operating revenues	$ 641	$ 561	$ 149	$ 701	
Gross profit	60	71	54	172	
Net income	14	17	15	14	
Amounts recorded by Ashland					
Investments and advances	70	138[1]	12	71	$ 291
Equity income	7	6	3	6	22
Dividends received	–	3	–	5	8
SEPTEMBER 30, 1993					
Financial position					
Current assets	$ 114	$ 133	$ 35	$ 195	
Current liabilities	(104)	(70)	(79)	(123)	
Working capital	10	63	(44)	72	
Noncurrent assets	738	748	666	199	
Noncurrent liabilities	(637)	(465)	(571)	(90)	
Stockholders' equity	$ 111	$ 346	$ 51	$ 181	
Results of operations					
Sales and operating revenues	$ 485	$ 550	$ 143	$ 654	
Gross profit (loss)	(13)	58	49	154	
Net income (loss)	(20)	41[2]	9	17	
Amounts recorded by Ashland					
Investments and advances	63	132	10	75	$ 280
Equity income (loss)	(10)	27	2	7	26
Dividends received	4	3	1	6	14
SEPTEMBER 30, 1992					
Results of operations					
Sales and operating revenues	$ 540	$ 528	$ 156	$ 599	
Gross profit	31	86	58	148	
Net income (loss)	(104)[3]	35	21	13	
Amounts recorded by Ashland					
Equity income	10	13	4	6	$ 33
Dividends received	4	3	–	4	11

(1) The market value of Ashland's investment is $214 million based on the market price of Ashland Coal's common stock.

(2) Includes a net gain of $44 million resulting from a favorable adjustment to income tax expense due to tax law changes, partially offset by a charge to increase the valuation allowance for certain prepaid royalties. Also includes a net charge of $19 million for the cumulative effect of the adoption of FAS 106 and FAS 109, which was recorded by Ashland in 1992.

(3) Includes a net after-tax charge of $123 million for the adoption of FAS 106 and FAS 109 along with an after-tax gain of $15 million from insurance proceeds resulting from a fire at an Illinois mine.

Ashland's retained earnings include $159 million of undistributed earnings from unconsolidated affiliates accounted for under the equity method.

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NOTE E – LONG-TERM DEBT

(In millions)	1994	1993
Senior debt		
Medium-term notes, due 1995-2023, interest at an average rate of 8.8% at September 30, 1994 (5.8% to 10.4%)	$ 661	$ 668
8.80% debentures, due 2012	250	250
11.125% sinking fund debentures, due 2017	200	200
Pollution control and industrial revenue bonds, due 1996 to 2020, interest at an average rate of 6.3% at September 30, 1994 (3.4% to 8.1%)	162	162
Note payable to bank for financing of leveraged employee stock ownership plan, due 1995-1996, interest at a combination of an adjusted certificate of deposit rate and 76% of the prime rate (5.2% at September 30, 1994)	33	33
Other	21	19
	1,327	1,332
Other		
6.75% convertible subordinated debentures, due 2014, convertible into common stock at $51.34 per share	124	142
Subsidiary debt not guaranteed by Ashland and other	1	7
	125	149
	1,452	1,481
Current portion of long-term debt	(61)	(82)
	$1,391	$1,399

Aggregate maturities of long-term debt are $61 million in 1995, $65 million in 1996, $60 million in 1997, $49 million in 1998 and $49 million in 1999. Excluded from such maturities are $38 million of floating rate pollution control and industrial revenue bonds, due between 2003 and 2009. These bonds are subject to early redemptions at the bondholders' option, but generally not before 1996.

Ashland has various revolving credit agreements totaling $350 million under which no borrowings were outstanding at September 30, 1994. The agreement providing for $300 million in borrowings expires on March 9, 1998, while the agreements providing for $50 million in borrowings expire on February 24, 1995.

Certain debt agreements contain covenants restricting dividends, share repurchases and other distributions with respect to Ashland's capital stock, as well as covenants limiting new borrowings. At September 30, 1994, distributions with respect to Ashland's capital stock were restricted to $873 million.

Interest payments on all indebtedness amounted to $119 million in 1994, $131 million in 1993 and $130 million in 1992.

NOTE F – FINANCIAL INSTRUMENTS

Ashland uses interest rate swap agreements to obtain greater access to the lower borrowing costs normally available on floating-rate debt, while minimizing refunding risk through the issuance of long-term, fixed-rate debt. At September 30, 1994, Ashland had unleveraged agreements with a notional principal amount of $430 million which were used to convert fixed rates on its 8.80% debentures and certain medium-term notes to variable rates based on three-month or six-month London Interbank Offered Rates (LIBOR). At that date, Ashland was receiving a weighted-average fixed interest rate of 5.8% and paying a weighted-average variable interest rate of 5%, calculated on the notional amount. Notional amounts do not quantify risk or represent assets or liabilities of Ashland, but are used in the determination of cash settlements under the agreements. The terms remaining on Ashland's swaps range from 14 to 52 months, with a weighted-average remaining life of 38 months.

Interest expense was reduced by $9 million in 1994, $8 million in 1993 and $2 million in 1992 resulting from settlements under these agreements. Ashland is exposed to credit losses from counterparty nonperformance, but does not anticipate any losses from its agreements, all of which are with major financial institutions. Due to increasing interest rates, the estimated fair value of Ashland's swaps amounted to a net liability of $15 million at September 30, 1994, compared to a net asset of $22 million at September 30, 1993. This decline in value was more than offset by the decline in the fair value of the related fixed-rate indebtedness. Under its current swap agreements, Ashland's annual interest expense in 1995 will change by about $4 million for each 1% change in LIBOR.

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The carrying amounts and fair values of Ashland's significant financial instruments at September 30, 1994 and 1993 are shown below. The fair values of cash and cash equivalents, notes payable to banks and commercial paper approximate their carrying amounts. The fair values of investments of captive insurance companies are based on quoted market prices plus accrued interest. The fair values of long-term debt are based on quoted market prices or, if market prices are not available, the present values of the underlying cash flows discounted at Ashland's incremental borrowing rates. The fair values of interest rate swaps are based on quoted market prices, which reflect the present values of the difference between estimated future variable-rate payments and future fixed-rate receipts.

	1994		1993	
(In millions)	*Carrying amount*	*Fair value*	*Carrying amount*	*Fair value*
Assets				
Cash and cash equivalents	$ 40	$ 40	$ 41	$ 41
Investments of captive insurance companies	181	181	185	198
Liabilities				
Notes payable to banks and commercial paper	72	72	77	77
Long-term debt (including current portion)	1,452	1,517	1,481	1,713
Interest rate swaps	–	15	–	(22)

NOTE G – LEASES AND OTHER COMMITMENTS

LEASES

Ashland and its subsidiaries are lessees in noncancelable leasing agreements for office buildings, warehouses, pipelines, transportation and marine equipment, storage facilities, retail outlets, manufacturing facilities and other equipment and properties which expire at various dates. Capitalized lease obligations are not significant and are included in long-term debt. Future minimum rental payments at September 30, 1994, and rental expense under operating leases follow.

(In millions)

Future minimum rental payments	
1995	$ 63
1996	50
1997	41
1998	40
1999	35
Later years	222
	$451

Rental expense	1994	1993	1992
Minimum rentals (including rentals under short-term leases)	$113	$111	$104
Contingent rentals	12	11	12
Sublease rental income	(12)	(17)	(13)
	$113	$105	$103

OTHER COMMITMENTS

Under agreements with LOOP and LOCAP (see Note D), Ashland is committed to advance funds against future transportation charges if these corporate joint ventures are unable to meet their cash requirements. Such advances are limited to Ashland's share, based on its equity interests, of the total debt service and defined operating and administrative costs of these companies. Such advances, however, are reduced by (1) transportation charges Ashland paid, (2) a pro rata portion of transportation charges paid by other equity participants in excess of their required amounts, and (3) a pro rata portion of transportation charges paid by third parties who are not equity participants. At September 30, 1994, all advances made to LOOP and LOCAP by Ashland had been applied against transportation charges. Transportation charges incurred amounted to $24 million in 1994, $22 million in 1993 and $25 million in 1992. At September 30, 1994, Ashland's contingent liability for its share of the indebtedness of LOOP and LOCAP secured by throughput and deficiency agreements amounted to approximately $100 million.

Ashland is contingently liable under guarantees of certain debt and lease obligations of Ashland Coal, Inc., an unconsolidated affiliate. At September 30, 1994, such obligations have a present value of approximately $16 million. Ashland is also contingently liable for up to $16 million of borrowings under a revolving credit agreement of AECOM Technology Corporation, an unconsolidated affiliate. Ashland's guaranteed portion of outstanding borrowings under this agreement amounted to $9 million at September 30, 1994.

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NOTE H – INCOME TAXES

A summary of the provision for income taxes follows. The 1993 provision was not significantly affected by tax legislation that, among other things, increased the federal income tax rate 1%, effective January 1, 1993.

(In millions)	1994	1993	1992
Current[1]			
Federal	$ 56	$ 24	$ 41
State	8	13	8
Foreign	9	7	8
	73	44	57
Deferred			
Federal and state	2	14	(145)
Foreign	–	–	(2)
	2	14	(147)
	$ 75	$ 58	$ (90)

(1) Income tax payments amounted to $70 million in 1994, $41 million in 1993 and $40 million in 1992.

Deferred income taxes are provided for significant income and expense items recognized in different years for tax and financial reporting purposes. Temporary differences which give rise to significant deferred tax assets (liabilities) follow.

(In millions)	1994	1993
Accrued pension and other postretirement benefits	$205	$ 202
Environmental, insurance and litigation reserves	116	103
Alternative minimum tax credit carryforwards	23	19
Property related items other than depreciation	23	25
Uncollectible accounts receivable	17	18
Other items	75	79
Total deferred tax assets	459	446
Accelerated depreciation	(357)	(351)
Intangible drilling costs	(38)	(33)
Undistributed equity income	(16)	(17)
Other items	(7)	(11)
Total deferred tax liabilities	(418)	(412)
Net deferred tax asset	$ 41	$ 34

The U.S. and foreign components of income before income taxes and a reconciliation of the normal statutory federal income tax with the provision for income taxes follow.

(In millons)	1994	1993	1992
Income (loss) before income taxes			
United States	$211	$151	$(231)
Foreign	61	49	73
	$272	$200	$(158)
Income taxes computed at U.S. statutory rates	$ 95	$ 70	$ (54)
Increase (decrease) in amount computed resulting from			
Equity income	(7)	(6)	(9)
State income taxes	6	9	(10)
Net impact of foreign results	(7)	(7)	(7)
Non-conventional fuel credit	(10)	(9)	(9)
Other items	(2)	1	(1)
	$ 75	$ 58	$ (90)

The Internal Revenue Service (IRS) has examined Ashland's consolidated U.S. income tax returns through 1989. As a result of its examinations, the IRS has proposed adjustments, certain of which are being contested by Ashland. Ashland believes it has adequately provided for any income taxes and related interest which may ultimately be paid on contested issues.

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NOTE I – CAPITAL STOCK

In May 1993, Ashland completed the sale of six million shares of cumulative convertible preferred stock priced at $50 per share. Net proceeds, after fees and expenses, totaled $293 million and were used to reduce debt. The shares have no voting rights and are entitled to cumulative annual dividends of $3.125 per share. They have liquidation preferences equal to $50 per share plus accrued and unpaid dividends, and are convertible at any time at the option of the holders into 1.546 shares of Ashland common stock. The preferred shares are redeemable at the option of Ashland at $51.88 per share beginning March 25, 1997, and declining gradually to $50 per share by March 15, 2003, plus accrued and unpaid dividends to the redemption date.

Under Ashland's Shareholder Rights Plan, each common share is accompanied by one-half of a Right to purchase one-tenth share of preferred stock for $120 (the "Exercise Price"). Each one-tenth share of preferred stock will be entitled to dividends and to vote on an equivalent basis with two common shares. The Rights are not exercisable or detachable from the common shares until 10 days after any party acquires 15% or more (or announces a tender offer for 20% or more) of Ashland's common stock. If any party acquires 20% or more of Ashland's common stock or acquires Ashland in a business combination, each Right (other than those held by the acquiring party) will entitle the holder to purchase stock of Ashland or the acquiring company having a market value of two times the Exercise Price. The Rights expire on May 15, 1996, and can be redeemed at any time prior to becoming exercisable.

At September 30, 1994, 10 million shares of cumulative preferred stock are reserved for potential issuance under the Shareholder Rights Plan. At September 30, 1994, 16 million common shares are reserved for conversion of debentures and preferred stock and for issuance under outstanding stock options.

NOTE J – STOCK OWNERSHIP PLANS

LEVERAGED EMPLOYEE STOCK OWNERSHIP PLAN

During 1986, Ashland established a leveraged employee stock ownership plan (LESOP) to cover the majority of its salaried employees. LESOP purchases of Ashland common stock that year were generally funded through a loan from Ashland, of which the remaining principal at September 30, 1986, amounted to $246 million. In 1987, Ashland contributed excess assets recovered from certain company pension plans to the LESOP and prepaid $212 million of the remaining principal. Because one-half of employees' LESOP accounts serve to fund future benefits paid by certain pension plans, one-half of the funds used to prepay debt was accounted for by Ashland as a prepaid LESOP contribution.

Ashland common shares held by the LESOP related to the contribution of excess pension assets were allocated to employees' accounts over an eight-year period ending September 30, 1994. The remaining shares are allocated as the loan to the LESOP is repaid. The projected costs of the LESOP (including the prepaid contribution, projected dividends on the related unallocated shares and projected future contributions) are being expensed on a pro rata basis as the original shares are allocated to employees. This expense totaled $18 million annually in 1994, 1993 and 1992. Additional contributions from Ashland were not required through September 30, 1994, since dividends on unallocated shares exceeded interest and administrative costs, with the excess used to prepay portions of the remaining principal on the loan. Contributions from Ashland will resume in fiscal 1995 as principal payments on the loan become due.

STOCK INCENTIVE PLANS

Ashland has stock incentive plans under which key employees or directors can purchase shares of common stock under stock options or restricted stock awards. Stock options are granted to employees at a price equal to the fair market value of the stock on the date of grant and become exercisable over periods of one to three years. Unexercised options lapse 10 years after the date of grant. Restricted stock awards entitle employees or directors to purchase shares at a nominal cost, to vote such shares and to receive any dividends thereon. However, such shares are subject to forfeiture upon termination of service before the restriction period ends.

	1994		1993		1992	
(In thousands except per share data)	*Common shares*	*Price range per share*	*Common shares*	*Price range per share*	*Common shares*	*Price range per share*
Options outstanding – beginning of year[1]	4,504	$13⅜ - 41	3,918	$13⅜ - 41	3,349	$13⅜ - 41
Options granted	860	35⅞ - 37½	934	24⅛ - 33⅛	753	23¾ - 30¾
Options exercised	(639)	13⅜ - 41	(81)	13⅜ - 33⅜	(71)	13⅜ - 30¾
Options canceled	(28)	23⅞ - 41	(267)	23⅞ - 41	(113)	30 - 41
Options outstanding – end of year[1]	4,697	$14¼ - 41	4,504	$13⅜ - 41	3,918	$13⅜ - 41
Options exercisable – end of year	3,242	$14¼ - 41	3,080	$13⅜ - 41	2,597	$13⅜ - 41

(1) Shares of common stock available for issuance under options or awards amounted to 2,295,000 at September 30, 1994, and 2,660,000 at October 1, 1993.

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NOTE K – EMPLOYEE BENEFIT PLANS

PENSION PLANS

Ashland sponsors pension plans which cover substantially all employees, other than union employees covered by multiemployer pension plans under collective bargaining agreements. Benefits under Ashland's plans generally are based on the employee's years of service and compensation during the years immediately preceding retirement. For certain plans, such benefits are expected to come in part from one-half of employees' leveraged employee stock ownership plan (LESOP) accounts. Ashland determines the level of contributions to its pension plans annually and contributes amounts within allowable limitations imposed by Internal Revenue Service regulations. Ashland contributed the maximum tax-deductible contributions to its pension plans in 1994 and 1993, while full funding limitations prohibited Ashland from making significant contributions in 1992. The following tables detail the funded status of the plans and the components of pension expense. A discount rate of 8% and an assumed rate of salary increases of 5% were used in determining the actuarial present value of projected benefit obligations at September 30, 1994 (7% and 5% at September 30, 1993).

	1994		1993	
(In millions)	*Plans with assets in excess of ABO*	*Plans with ABO in excess of assets*	*Plans with assets in excess of ABO*	*Plans with ABO in excess of assets*
Plan assets at fair value (primarily listed stocks and bonds)	$ 36	$185	$ 36	$177
Accumulated benefit obligations (ABO)				
Vested	30	188	31	190
Nonvested	5	44	5	34
	35	232	36	224
Plan assets less than (in excess of) ABO	(1)	47[1]	–	47
Provision for future salary increases	12	131	12	146
Deferred pension costs	(8)	(40)	(12)	(67)
Net accrued pension costs[2]	$ 3	$138	$ –	$126
Components of deferred pension costs				
Unrecognized transition gain	$ 3	$ 10	$ 3	$ 15
Unrecognized net loss	(10)	(63)	(14)	(88)
Unrecognized prior service costs	(1)	(9)	(1)	(10)
Recognition of minimum liability	–	22	–	16
	$ (8)	$ (40)	$(12)	$ (67)

(In millions)	1994	1993	1992
Components of pension expense			
Service cost	$ 24	$ 26	$ 20
Interest cost	29	28	24
Actual investment loss (gain) on plan assets	7	(24)	(15)
Deferred investment (loss) gain[3]	(27)	10	1
Other amortization and deferral	4	5	–
Voluntary enhanced retirement program pension cost	–	–	9
	$ 37	$ 45	$ 39

(1) Includes unfunded ABO of $44 million for non-qualified supplemental pension plans.
(2) Amounts are recorded in various asset and liability accounts on Ashland's consolidated balance sheets.
(3) The expected long-term rate of return on plan assets was 9% for 1994 and 1993, and 10% for 1992.

OTHER POSTRETIREMENT BENEFIT PLANS

Ashland sponsors several unfunded benefit plans which provide health care and life insurance benefits for eligible employees who retire from active service. The health care plans are contributory, with retiree contributions adjusted periodically, and contain other cost-sharing features such as deductibles and coinsurance. The life insurance plans are generally noncontributory. Ashland's policy is to fund the costs of postretirement plans on a pay-as-you-go basis. During 1992, Ashland adopted Financial Accounting Standards Board Statement No. 106, "Employers' Accounting for Postretirement Benefits Other Than Pensions" (see Note A).

During 1993, Ashland amended nearly all of its retiree health care plans to place a cap on the company's contributions and to adopt a cost-sharing method based upon a retiree's years of service. The cap limits the company's contribution to average retiree per capita health care costs for 1992 (net of direct retiree contributions), increasing thereafter by up to 4.5% per year. If per capita health care costs increase by more than 4.5% per year, the additional costs will be paid by retirees through higher contributions. As a result, the accumulated postretirement benefit obligation (APBO) for retiree health care plans was reduced by $197 million and postretirement health care expense decreased after 1992 to amounts more closely approximating pre-1992 pay-as-you-go levels.

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The following tables detail the status of the plans and the components of postretirement benefit expense. The APBO was determined using a discount rate of 8% at September 30, 1994, and 7% at September 30, 1993. Under the amended plan, the assumed annual rate of increase in the per capita cost was 4.5% beginning in 1993.

	1994		1993		1992	
(In millions)	*Health care*	*Life insurance*	*Health care*	*Life insurance*	*Health care*	*Life insurance*
Accumulated postretirement benefit obligations (APBO)						
Retirees	$ 93	$19	$102	$20		
Fully eligible active plan participants	38	5	41	5		
Other active plan participants	86	5	95	5		
	217	29	238	30		
Unrecognized net loss	(17)	–	(51)	(2)		
Unrecognized plan amendment credit	158	8	180	8		
Accrued other postretirement benefit costs	$358	$37	$367	$36		
Components of other postretirement benefit expense						
Service cost	$ 7	$ 1	$ 6	$ 1	$15	$1
Interest cost	16	2	16	2	28	3
Amortization and deferral (principally plan amendment credit)	(15)	(1)	(17)	(1)	–	–
	$ 8	$ 2	$ 5	$ 2	$43	$4

OTHER PLANS

Certain union employees are covered under multiemployer defined benefit pension plans administered by unions. Amounts charged to pension expense and contributed to the plans were $1 million annually in 1994, 1993 and 1992.

Ashland sponsors a Thrift Plan to assist eligible employees in providing for retirement or other future financial needs. Ashland matches employee contributions up to 6% of their qualified earnings at a rate of 70% (20% for LESOP participants). Ashland's contributions to the Plan amounted to $7 million annually in 1994, 1993 and 1992.

NOTE L – LITIGATION, CLAIMS AND CONTINGENCIES

Ashland is subject to various federal, state and local environmental laws and regulations which require remediation efforts at multiple locations, including operating facilities, previously owned or operated facilities, and Superfund or other waste sites. Consistent with its accounting policy for environmental costs, Ashland's reserves for environmental assessments and remediation efforts amounted to $167 million at September 30, 1994, and $139 million at September 30, 1993. Such amounts reflect Ashland's most likely estimates of the costs which will be incurred over an extended period to remediate identified environmental conditions for which costs are reasonably estimable.

Environmental reserves are subject to considerable uncertainties which affect Ashland's ability to estimate its share of the ultimate costs of required remediation efforts. Such uncertainties involve the nature and extent of contamination at each site, the extent of required cleanup efforts under existing environmental regulations, widely varying costs of alternate cleanup methods, changes in environmental regulations, the potential effect of continuing improvements in remediation technology, and the number and financial strength of other potentially responsible parties at multiparty sites. As a result, charges to income for environmental liabilities could have a material effect on results of operations in a particular quarter or fiscal year as assessments and remediation efforts proceed or as new remediation sites are identified. However, such charges are not expected to have a material adverse effect on Ashland's consolidated financial position.

Ashland has numerous insurance policies that provide coverage at various levels for environmental costs. Ashland is currently involved in negotiations concerning the amount of insurance coverage for environmental costs under some of these policies. In addition, various costs of remediation efforts related to underground storage tanks are eligible for reimbursement from state administered funds. Probable recoveries related to certain costs incurred or expected to be incurred in future years are included in other noncurrent assets.

In addition, Ashland and its subsidiaries are parties to numerous claims and lawsuits (some of which are for substantial amounts) with respect to product liability and commercial and other matters. While these claims and actions are being contested, the outcome of individual matters is not predictable with assurance. Although any actual liability is not determinable as of September 30, 1994, Ashland believes that any liability resulting from these matters involving Ashland and its subsidiaries, after taking into consideration Ashland's insurance coverages and amounts provided for, should not have a material adverse effect on Ashland's consolidated financial position.

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Report of Management

Management is responsible for the consolidated financial statements and other financial information included in this Annual Report. This responsibility entails preparing financial statements in accordance with generally accepted accounting principles and selecting those principles and reporting information which, using management's best judgment and estimates, present fairly Ashland's consolidated financial position, results of operations and cash flows. The other financial information in this Annual Report is consistent with the consolidated financial statements.

Management is also responsible for establishing and maintaining internal control systems designed to provide reasonable assurance that assets are safeguarded and records reflect, in all material respects, the transactions of Ashland in accordance with management's authorization. The concept of reasonable assurance is based on the recognition that the cost of a system of internal control should not exceed the related benefits. Management believes that an adequate internal control system is maintained by the selection and training of qualified personnel, by an appropriate division of responsibility in all organizational arrangements, by the establishment and communication of accounting and business policies, and by internal audits.

The Board, subject to stockholder ratification, selects and engages the independent auditors. The Audit Committee, composed of directors who are not members of management, reviews Ashland's accounting policies and practices, reviews the scope of services performed by the independent auditors, and holds meetings with Ashland's internal auditor and the independent auditors, with and without management present, to discuss the scope, timing and findings of the audits.

Ernst & Young LLP, independent auditors, are engaged to audit Ashland's consolidated financial statements and to issue an opinion as to whether such statements present fairly, in all material respects, Ashland's consolidated financial position, results of operations and cash flows. Their audit is conducted in accordance with generally accepted auditing standards, including a review of Ashland's internal control structure to the extent they consider necessary in the circumstances, and their report follows.

Report of Independent Auditors

The Board of Directors and Stockholders
Ashland Oil, Inc.

We have audited the accompanying consolidated balance sheets of Ashland Oil, Inc. and subsidiaries as of September 30, 1994 and 1993, and the related consolidated statements of income, common stockholders' equity and cash flows for each of the three years in the period ended September 30, 1994. These financial statements are the responsibility of Ashland's management. Our responsibility is to express an opinion on these financial statements based on our audits.

We conducted our audits in accordance with generally accepted auditing standards. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, the financial statements referred to above (appearing on pages 41 to 55 of this Annual Report) present fairly, in all material respects, the consolidated financial position of Ashland Oil, Inc. and subsidiaries at September 30, 1994 and 1993, and the consolidated results of their operations and their cash flows for each of the three years in the period ended September 30, 1994, in conformity with generally accepted accounting principles.

As discussed in Note A to the consolidated financial statements, in fiscal 1992 Ashland changed its methods of accounting for postretirement benefits other than pensions and for income taxes.

Ernst & Young LLP

Louisville, Kentucky
November 2, 1994

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FIVE YEAR SELECTED FINANCIAL INFORMATION

ASHLAND OIL, INC. AND SUBSIDIARIES
YEARS ENDED SEPTEMBER 30

(In millions except per share data)	1994	1993	1992	1991	1990
SUMMARY OF OPERATIONS					
Revenues					
Sales and operating revenues (including excise taxes)	$10,334	$10,199	$10,211	$9,867	$9,473
Other	48	57	40	56	54
Costs and expenses					
Cost of sales and operating expenses	(7,742)	(7,951)	(8,210)	(7,725)	(7,401)
Excise taxes on products and merchandise	(877)	(645)	(659)	(620)	(497)
Selling, general and administrative expenses	(1,021)	(993)	(1,023)	(926)	(949)
Depreciation, depletion and amortization	(295)	(293)	(290)	(265)	(256)
General corporate expenses	(80)	(77)	(132)	(93)	(93)
Operating income (loss)	367	297	(63)	294	331
Other income (expense)					
Interest expense (net of interest income)	(117)	(123)	(128)	(115)	(118)
Equity income	22	26	33	14	50
Income (loss) before income taxes and the cumulative effect of accounting changes	272	200	(158)	193	263
Income taxes (credit)	75	58	(90)	48	81
Income (loss) before the cumulative effect of accounting changes	197	142	(68)	145	182
Cumulative effect of accounting changes	–	–	(268)	–	–
Net income (loss)	$ 197	$ 142	$ (336)	$ 145	$ 182
BALANCE SHEET INFORMATION					
Working capital					
Current assets	$ 2,171	$ 1,973	$ 2,110	$2,119	$2,143
Current liabilities	1,688	1,619	2,046	1,823	1,805
	$ 483	$ 354	$ 64	$ 296	$ 338
Total assets	$ 5,815	$ 5,552	$ 5,668	$5,449	$5,118
Capitalization					
Debt due within one year	$ 133	$ 159	$ 306	$ 195	$ 170
Long-term debt (less current portion)	1,391	1,399	1,444	1,337	1,235
Deferred income taxes	30	44	59	312	324
Convertible preferred stock	293	293	–	–	–
Common stockholders' equity	1,302	1,162	1,086	1,444	1,280
	$ 3,149	$ 3,057	$ 2,895	$3,288	$3,009
CASH FLOW INFORMATION					
Cash flows from operations	$ 454	$ 250	$ 398	$ 473	$ 371
Additions to property, plant and equipment	376	432	504	445	446
Dividends	79	66	60	58	58
COMMON STOCK INFORMATION					
Primary earnings (loss) per share	$ 2.94	$ 2.26	$ (1.18)[1]	$ 2.56	$ 3.27
Dividends per share	1.00	1.00	1.00	1.00	1.00

(1) Excludes the cumulative effect of accounting changes of $(4.57) per share.

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Five Year Information By Industry Segment

Ashland Oil, Inc. and Subsidiaries
Years Ended September 30

(In millions)	1994	1993	1992	1991	1990
SALES AND OPERATING REVENUES					
Petroleum	$ 4,666	$ 4,752	$ 4,848	$4,877	$4,169
SuperAmerica	1,706	1,785	1,888	1,948	1,747
Valvoline	1,000	938	900	793	701
Chemical	2,885	2,586	2,488	2,285	2,245
Construction	1,101	1,116	1,043	1,019	1,083
Engineering	–	–	–	–	348
Exploration	199	247	262	323	399
Intersegment sales[1]					
Petroleum	(1,193)	(1,195)	(1,182)	(1,335)	(1,177)
Other	(30)	(30)	(36)	(43)	(42)
	$10,334	$10,199	$10,211	$9,867	$9,473
OPERATING INCOME (LOSS)					
Petroleum	$ 113	$ 56[2]	$ (125)	$ 138	$ 211
SuperAmerica	59	65	1	30	41
Valvoline	52	56	50	39	37
Total Refining and Marketing Group	224	177	(74)	207	289
Chemical	125	108	81	98	70
Construction	70	53	45	41	53
Engineering	–	–	–	–	(28)[3]
Exploration	28	36	17	41	40
General corporate expenses	(80)[4]	(77)	(132)	(93)	(93)
	$ 367	$ 297	$ (63)[5]	$ 294	$ 331
IDENTIFIABLE ASSETS					
Petroleum	$ 2,259	$ 2,240	$ 2,296	$2,274	$1,862
SuperAmerica	398	364	446	437	443
Valvoline	532	430	402	377	375
Chemical	1,122	958	999	834	856
Construction	404	440	437	434	514
Exploration	374	375	361	337	324
Coal investments	208	196	190	231	274
Corporate[6]	518	549	537	525	470
	$ 5,815	$ 5,552	$ 5,668	$5,449	$5,118

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(In millions)	1994	1993	1992	1991	1990
ADDITIONS TO PROPERTY, PLANT AND EQUIPMENT					
Petroleum	$155	$230	$273	$249	$191
SuperAmerica	39	25	37	37	67
Valvoline	25	21	19	14	27
Chemical	61	51	47	41	48
Construction	45	43	42	36	46
Engineering	–	–	–	–	3
Exploration	41	42	67	60	39
Corporate	10	20	19	8	25
	$376	$432	$504	$445	$446
DEPRECIATION, DEPLETION AND AMORTIZATION					
Petroleum	$134	$127	$125	$103	$ 93
SuperAmerica	27	28	31	31	30
Valvoline	19	18	17	16	17
Chemical	43	42	43	41	39
Construction	40	44	45	48	47
Engineering	–	–	–	–	5
Exploration	33	34	28	26	25
Corporate	12	12	13	14	13
	$308	$305	$302	$279	$269

(1) Intersegment sales are accounted for at prices which approximate market value.
(2) Includes a gain of $15 million on the sale of TPT, an inland waterways barge operation.
(3) Includes a provision of $15 million for estimated expenditures to correct problems with certain boiler contracts.
(4) Includes a net gain of $11 million related to litigation matters.
(5) Operating income for 1992 includes charges for unusual items totaling $208 million consisting of provisions for a voluntary enhanced retirement program ($31 million); various asset write-downs including properties held for sale and assets of discontinued operations ($64 million); future environmental cleanup costs ($41 million); reserves for future costs associated with certain custom boilers built by a former engineering subsidiary and other matters ($38 million); and the current year effect of the adoption of a new accounting standard for postretirement benefits ($34 million). The combined effect of all of these items reduced operating income for each of the segments as follows: Petroleum ($89 million), SuperAmerica ($28 million), Valvoline ($2 million), Chemical ($15 million), Construction ($9 million), Exploration ($16 million) and general corporate expenses ($49 million).
(6) Includes principally cash, cash equivalents, investments in and advances to unconsolidated affiliates (other than Arch Mineral Corporation and Ashland Coal, Inc.) and investments of captive insurance companies.

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SUPPLEMENTAL OIL AND GAS INFORMATION

ASHLAND OIL, INC. AND SUBSIDIARIES

YEARS ENDED SEPTEMBER 30

OIL AND GAS RESERVES, REVENUES AND COSTS

The following tables summarize Ashland's (1) crude oil and natural gas reserves, (2) results of operations from oil and gas producing and marketing activities, (3) costs incurred, both capitalized and expensed, in oil and gas producing activities, and (4) capitalized costs for oil and gas producing activities, along with the related accumulated depreciation, depletion and amortization. U.S. crude oil and natural gas reserves are reported net of royalties and interests owned by others. Foreign crude oil reserves relate to reserves available to Ashland, as producer, under a long-term contract with the Nigerian National Petroleum Corporation. Reserves reported in the table are estimated and are subject to future revisions.

	1994			1993			1992		
	U. S.	*Foreign*	*Total*	*U. S.*	*Foreign*	*Total*	*U. S.*	*Foreign*	*Total*
CRUDE OIL RESERVES (millions of barrels)									
Proved developed and undeveloped reserves									
Beginning of year	1.4	7.7	9.1	1.6	13.3	14.9	1.7	15.0	16.7
Revisions of previous estimates	(.1)	6.7	6.6	.2	2.3	2.5	.2	7.8	8.0
Extensions and discoveries	–	–	–	–	–	–	.2	–	.2
Sale of reserves in place	(.1)	–	(.1)	–	–	–	(.1)	–	(.1)
Production	(.3)	(6.8)	(7.1)	(.4)	(7.9)	(8.3)	(.4)	(9.5)	(9.9)
End of year	.9	7.6	8.5	1.4	7.7	9.1	1.6	13.3	14.9
Proved developed reserves									
Beginning of year	1.3	7.7	9.0	1.5	13.3	14.8	1.7	15.0	16.7
End of year	.9	7.6	8.5	1.3	7.7	9.0	1.5	13.3	14.8
NATURAL GAS RESERVES (billions of cubic feet)									
Proved developed and undeveloped reserves									
Beginning of year	455.5			463.9			399.1		
Revisions of previous estimates	(98.2)			4.9			19.9		
Extensions and discoveries	25.9			19.4			67.2		
Purchase of reserves in place	.4			3.5			6.4		
Production	(34.4)			(36.2)			(28.7)		
End of year	349.2			455.5			463.9		
Proved developed reserves									
Beginning of year	352.0			346.5			302.9		
End of year	320.5			352.0			346.5		
RESULTS OF OPERATIONS (in millions)									
Revenues									
Sales to third parties	$ 96	$ 99	$195	$106	$135	$241	$ 74	$182	$256
Intersegment sales[1]	4	–	4	6	–	6	6	–	6
	100	99	199	112	135	247	80	182	262
Costs and expenses									
Production (lifting) costs[2]	(23)	(90)	(113)	(25)	(60)	(85)	(25)	(80)	(105)
Exploration expenses	(13)	(1)	(14)	(8)	(10)	(18)	(7)	(3)	(10)
Depreciation, depletion, amortization and valuation provisions	(35)	(1)	(36)	(33)	(3)	(36)	(38)	(4)	(42)
Other costs[3]	(25)	(2)	(27)	(23)	(5)	(28)	(21)	(4)	(25)
Income and foreign exploration taxes	7	19	26	–	(44)	(44)	15	(63)	(48)
	$ 11	$ 24	$ 35	$ 23	$ 13	$ 36	$ 4	$ 28	$ 32
COSTS INCURRED (in millions)									
Property acquisition costs									
Proved properties	$ 1	$ –	$ 1	$ 3	$ –	$ 3	$ 9	$ –	$ 9
Unproved properties	2	–	2	2	–	2	3	3	6
Exploration costs	19	1	20	10	10	20	11	6	17
Development costs	32	2	34	35	2	37	60	–	60
CAPITALIZED COSTS (in millions)									
Proved properties	$494	$392	$886	$467	$391	$858			
Unproved properties	45	1	46	47	3	50			
	539	393	932	514	394	908			
Accumulated depreciation, depletion and amortization	(231)	(392)	(623)	(211)	(391)	(602)			
	$308	$ 1	$309	$303	$ 3	$306			

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Standardized Measure of Discounted Future Net Cash Flows Relating to Oil and Gas Reserves

The following tables summarize discounted future net cash flows and changes in such flows in accordance with Financial Accounting Standards Board Statement No. 69, "Disclosures about Oil and Gas Producing Activities." Under the guidelines of the Statement, estimated future cash flows are determined based on current prices for crude oil and natural gas, estimated production of Ashland's proved crude oil and natural gas reserves, estimated future production and development costs of those reserves based on current costs and economic conditions, and estimated future income and foreign exploration taxes based on taxing arrangements in effect at year-end. Such cash flows are then discounted using the prescribed 10% rate.

Many other assumptions could have been made which may have resulted in significantly different estimates. Ashland does not rely upon these estimates in making investment and operating decisions. Ashland does not represent this discounted future net cash flow to be indicative of future cash flow or the current value of its reserves, nor is it an appropriate value to compare with reported values of other companies with different fiscal year-ends. Gas prices utilized in deriving this discounted future net cash flow are based on conditions that existed at September 30 and are usually different than prices that exist at calendar year-end due to seasonal fluctuations in the natural gas market. Prices can also vary significantly at the same point in time from year to year due to a variety of factors. The average gas price used in the 1994 discounted future net cash flow calculation was based on $1.48 per million BTU at Henry Hub.

Ashland estimates that using the average NYMEX "12 month strip" futures price of $1.93 per million BTU as a basis would add 36BCF and $50 million to the discounted future net cash flow of $197 million at September 30, 1994. The average gas price used in the 1993 discounted future net cash flow calculation was based on $2.37 per million BTU at Henry Hub. Using that price as a basis in this year's calculation would add 101BCF and $102 million to the discounted future net cash flow at September 30, 1994. Therefore, disregarding price, Ashland essentially replaced the value of its production in fiscal 1994.

Discounted future net cash flows (in millions)	*U.S.*	*Foreign*	*Total*
September 30, 1994			
Future cash inflows	$ 691	$ 124	$ 815
Future production (lifting) costs	(315)	(80)	(395)
Future development costs	(22)	(9)	(31)
Future income and foreign exploration taxes	(17)	(24)	(41)
	337	11	348
Annual 10% discount	(140)	(1)	(141)
	$ 197	$ 10	$ 207
September 30, 1993			
Future cash inflows	$1,320	$ 121	$1,441
Future production (lifting) costs	(436)	(101)	(537)
Future development costs	(92)	–	(92)
Future income and foreign exploration taxes	(166)	(10)	(176)
	626	10	636
Annual 10% discount	(318)	(1)	(319)
	$ 308	$ 9	$ 317

Changes in discounted future net cash flows (in millions)	1994			1993			1992		
	U. S.	*Foreign*	*Total*	*U. S.*	*Foreign*	*Total*	*U. S.*	*Foreign*	*Total*
Net change due to extensions and discoveries	$ 21	$ –	$ 21	$ 20	$ –	$ 20	$ 39	$ –	$ 39
Sales of oil and gas produced – net of production (lifting) costs	(76)	(9)	(85)	(87)	(74)	(161)	(55)	(102)	(157)
Changes in prices	(186)	(3)	(189)	(35)	(25)	(60)	121	3	124
Previously estimated development costs incurred	24	2	26	38	1	39	45	2	47
Net change due to revisions of previous estimates of reserves	(17)	34	17	3	7	10	8	68	76
Purchase (sale) of reserves in place	–	–	–	3	–	3	3	–	3
Accretion of 10% discount	31	1	32	33	2	35	22	3	25
Other – net[4]	33	(11)	22	(16)	1	(15)	(17)	(2)	(19)
Net change in income and foreign exploration taxes	59	(13)	46	14	71	85	(48)	6	(42)
	(111)	1	(110)	(27)	(17)	(44)	118	(22)	96
Discounted future net cash flows Beginning of year	308	9	317	335	26	361	217	48	265
End of year	$197	$ 10	$207	$308	$ 9	$317	$ 335	$ 26	$ 361

(1) Intersegment sales are accounted for at prices which approximate market value.
(2) Includes only costs incurred to operate and maintain wells, related equipment and facilities.
(3) Includes results of crude oil trading.
(4) Includes changes in future production and development costs and changes in the timing of future production.

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DIRECTORS

ASHLAND OIL, INC.

Jack S. Blanton (1*, 5)
Chairman of the Board of
Houston Endowment, Inc.,
and Director and President of
Eddy Refining Company,
Houston, Texas

Thomas E. Bolger (2, 4*)
Chairman of the
Executive Committee of the Board
of Bell Atlantic Corporation,
Philadelphia, Pennsylvania

Samuel C. Butler (1, 4)
Partner of Cravath, Swaine
& Moore, Attorneys,
New York, New York

Frank C. Carlucci (3*, 4)
Chairman of the Board
of The Carlyle Group,
Washington, D.C.

Paul W. Chellgren** (2, 5)
President and
Chief Operating Officer
of Ashland Oil,
Ashland, Kentucky

James B. Farley (3, 5)
Retired Chairman
and Current Trustee
of Mutual Of New York,
New York, New York

Edmund B. Fitzgerald (1, 2)
Managing Director
of Woodmont Associates,
Nashville, Tennessee

Ralph E. Gomory (1, 5)
President of the
Alfred P. Sloan Foundation,
New York, New York

John R. Hall**
Chairman of the Board and
Chief Executive Officer
of Ashland Oil,
Ashland, Kentucky

Mannie L. Jackson (1, 5)
Senior Vice President
of Honeywell, Inc.,
Minneapolis, Minnesota

Patrick F. Noonan (1, 5*)
Chairman of the Board and
Chief Executive Officer
of The Conservation Fund,
Arlington, Virginia

Jane C. Pfeiffer (4, 5)
Management Consultant,
Greenwich, Connecticut

James R. Rinehart (2, 3)
Business and Labor Consultant,
Hiram, Ohio

Michael D. Rose (2*, 4)
Chairman of the Board of
The Promus Companies Incorporated,
Memphis, Tennessee

W. L. Rouse Jr. (1, 3)
Investments,
Lexington, Kentucky

Dr. Robert B. Stobaugh (2, 3)
Professor, Harvard Business School,
Boston, Massachusetts

James W. Vandeveer (2, 3)
Oil and Gas Producer,
Chairman of the Board of
Vantex Enterprises, Inc.,
Dallas, Texas

Committees:
(1) Audit (2) Finance (3) Nominating
(4) Personnel & Compensation
(5) Public Policy–Environmental

* Committee Chairman
** Officer/Director

CORPORATE GOVERNANCE

Ashland is a worldwide energy and chemical company managed by a core group and governed by a 17-member board of directors.

The board consists of 15 people from outside the company and two company officers. The board conducted seven meetings in fiscal 1994. Its five standing committees met a total of 15 times. These committees include Audit, Finance, Nominating, Personnel & Compensation, and Public Policy–Environmental.

The Audit, Nominating, and Personnel & Compensation committees consist entirely of outside directors. The chairmen and most members of the Finance and Public Policy–Environmental committees also are outside directors.

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Executive and Other Corporate Officers

ASHLAND OIL, INC.

Executive Officers

John R. Hall
Chairman of the Board and
Chief Executive Officer

Paul W. Chellgren
President and Chief Operating Officer

James R. Boyd
Senior Vice President and Group
Operating Officer: APAC, Ashland
Exploration, Ashland Services and
Arch Mineral Corporation

John A. Brothers
Senior Vice President and Group
Operating Officer: Ashland Chemical,
Valvoline and SuperAmerica

Robert E. Yancey Jr.
Senior Vice President and Group
Operating Officer: Ashland Petroleum
and South Point Ethanol; and
President, Ashland Petroleum

Thomas L. Feazell
Senior Vice President,
General Counsel and Secretary

J. Marvin Quin
Senior Vice President and
Chief Financial Officer

Harry M. Zachem
Senior Vice President, Public Affairs

John D. Barr
Senior Vice President,
and President, Valvoline

David J. D'Antoni
Senior Vice President,
and President, Ashland Chemical

John F. Pettus
Senior Vice President,
and President, SuperAmerica

Charles F. Potts
Senior Vice President,
and President, APAC

G. Thomas Wilkinson
Senior Vice President,
and President, Ashland Exploration

William R. Sawran
Vice President and
Chief Information Officer,
and President, Ashland Services

Kenneth L. Aulen
Administrative Vice President
and Controller

Philip W. Block
Administrative Vice President,
Human Resources

John W. Dansby
Administrative Vice President
and Treasurer

Fred E. Lutzeier
Auditor

Corporate officers

Sean T. Crimmins
Vice President and
General Tax Counsel

William G. Haddeland
Vice President,
Federal Government Relations

William P. Hartl
Vice President,
Investor Relations

J. Dan Lacy
Vice President,
Corporate Communications

Andrew C. Meko
Vice President, Environmental,
Health, Safety and Medical Affairs

Carl A. Pecko
Vice President, Planning

James G. Stephenson
Vice President, Law

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DIVISIONAL PERSONNEL

ASHLAND OIL, INC.

ASHLAND PETROLEUM

Robert E. Yancey Jr.
President

Robert C. Ball
Group Vice President, Products Supply and Transportation

D. Duane Gilliam
Group Vice President, Crude Oil Supply and Transportation

Charles R. Lovorn
Group Vice President, Marketing

Charles B. Miller
Group Vice President, Manufacturing

Ernie W. Stamper
Administrative Vice President

Richard P. Thomas
Administrative Vice President and General Counsel

Lauren L. Hill
President,
Scurlock Permian Corporation

Malcolm F. Howard
President,
Ashland Pipe Line Company

ASHLAND CHEMICAL

David J. D'Antoni
President

Peter M. Bokach
Group Vice President, Distribution

Gary A. Cappeline
Group Vice President,
Specialty Chemicals

Scotty B. Patrick
Group Vice President,
Petrochemical and Technical

D. S. Boston Jr.
Administrative Vice President

Thomas F. Davis
Administrative Vice President and General Counsel

SUPERAMERICA

John F. Pettus
President

R. J. Maxwell
Senior Vice President

Thomas M. Heskamp
Vice President, Merchandising

Rick E. Music
Administrative Vice President

Larry E. Robertson
Vice President, Human Resources

J. Michael Wilder
Vice President and General Counsel

ASHLAND OIL INTERNATIONAL LTD.

John D. Van Meter
President

Kurt J. Chapman
Vice President

VALVOLINE

John D. Barr
President

James B. Baylor
Senior Vice President,
Supply and Technical Services

John C. Biehl
Senior Vice President, Administration

Larry L. Detjen
Senior Vice President, and President,
Valvoline Instant Oil Change

Carl F. Frey
Senior Vice President, and President,
Valvoline Car Care Products Group

John M. Gordon
Senior Vice President,
and Managing Director,
Valvoline International

James V. Rocco
Senior Vice President,
and General Manager,
Valvoline Branded

APAC, INC.

Charles F. Potts
President

Dan L. Denison
Administrative Vice President and General Counsel

Lewis G. Noe Jr.
Administrative Vice President and Chief Financial Officer

Richard B. Durgin
Regional Vice President

Harold W. Medcalf Jr.
Regional Vice President

Eldon L. Ogren
Regional Vice President

E. Keith Richardson
Regional Vice President

E. M. Thomas
Regional Vice President

Patrick A. Wilkerson
Regional Vice President

ASHLAND COAL, INC.
(39-percent owned)

William C. Payne
Chairman, President and Chief Executive Officer

C. Henry Besten Jr.
Senior Vice President, Marketing

Marc R. Solochek
Senior Vice President and Chief Financial Officer

Kenneth G. Woodring
Senior Vice President, Operations

Roy F. Layman
Administrative Vice President, Law and Human Resources, and Secretary

ASHLAND EXPLORATION, INC.

G. Thomas Wilkinson
President

W. Paul Tiefel
Senior Vice President,
International

Judy C. Barnes
Vice President, Human Resources and Administration

Robert C. Bilger
Administrative Vice President,
Finance and Business Development

Fred D. Blake
Vice President, Law and Tax

Gary J. Celestino
Vice President and
Division Counsel

Bradley W. Fischer
Vice President, and
Regional Manager, Eastern Region

Jeffrey W. Lund
Vice President, and
Regional Manager, Houston Region

Mark D. Pierce
Vice President,
Marketing and Administration

John V. Connolly
Controller

ARCH MINERAL CORPORATION
(50-percent owned)

Steven F. Leer
President and
Chief Executive Officer

Steve A. Carter
Executive Vice President,
Marketing and Planning

Walter Mueller Jr.
President,
Apogee Coal Company

Ben H. Daud
President,
Catenary Coal Holdings, Inc.

Jeffry N. Quinn
Senior Vice President,
Secretary and General Counsel

John E. Walton
Senior Vice President, Treasurer and Chief Financial Officer

ASHLAND SERVICES

William R. Sawran
President

Roger B. Craycraft
Vice President,
Information Services

Rowland Pagan
Vice President,
Risk and Insurance

Kenneth L. Stout
Controller

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Shareholder Information

Ashland Oil, Inc.

Common Stock

Ashland's common stock is listed on the New York and Chicago stock exchanges and also has trading privileges on the Philadelphia, Boston, Cincinnati, Pacific and Amsterdam stock exchanges. Options for the company's common stock are traded on the Philadelphia Stock Exchange.

Ticker symbol: ASH

Fiscal 1994 stock prices per common share:

High	$44 1/2
Low	$31
Year-end	$35 3/8

Ashland Oil, Inc. is incorporated under the laws of the Commonwealth of Kentucky.

Dividends

Dividends are paid on the 15th day of December, March, June and September. The fiscal year ends on September 30.

Stock Information

Questions regarding shareholder records, stock certificates, dividends, the Dividend Reinvestment Plan or other stock inquiries should be directed to:

Harris Trust and Savings Bank
Shareholder Services Division
311 West Monroe Street
P.O. Box 755
Chicago, IL 60690
Telephone: (312) 461-2288

Registrar

Harris Trust and Savings Bank
Chicago, Ill.

Annual Meeting

Ashland's annual shareholders' meeting will be held in Ashland, Ky., at 10:30 a.m. on Thursday, Jan. 26, 1995. Proxies are mailed to shareholders during the month of December.

Financial Information

Ashland mails quarterly earnings reports to shareholders of record only. The reports are enclosed with quarterly dividend checks or statements.

Copies of Ashland's current quarterly earnings report and the Securities and Exchange Commission Form 10-K are available without charge. Requests for these documents and other shareholder and security analyst inquiries should be directed to:

William P. Hartl, Vice President
Investor Relations
Ashland Oil, Inc.
1000 Ashland Drive
Russell, KY 41169
Telephone: (606) 329-5757
Fax: (606) 329-3559

Media Inquiries

Corporate Communications
Ashland Oil, Inc.
1000 Ashland Drive
Russell, KY 41169
Telephone: (606) 329-4061

General Offices

Ashland Oil, Inc.
P. O. Box 391
Ashland, KY 41114
Telephone: (606) 329-3333

Independent Auditors

Ernst & Young LLP
Suite 2100
400 West Market Street
Louisville, KY 40202
Telephone: (502) 585-1400

EHS Annual Report

Ashland's first Environmental, Health and Safety Annual Report is available upon request. For a copy, please write to

Environmental Affairs Department
Ashland Oil, Inc.
P.O. Box 391
Ashland, KY 41114

Printed entirely on recycled paper

Design: Icon

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ASHLAND OIL, INC.
P.O. BOX 391
ASHLAND, KY
41114
(606) 329-3333

842600669

M E M O R A N D U M

TO: R. L. Bever

DATE: July 15, 1988

FROM: A. A. Hendrickson

CC: T. A. Goodwin
J. Parzych
R. S. Gose
RMA/WLT/GWH
E-7940

SUBJECT: Removal of Newark's Neutralization Unit

The NJDEP, Division of Water Resources, inquired about the status of the neutralization unit at Newark. Since it had not been used since August 1987 and there were no future plans to reuse the unit, we advised them in writing on January 14, 1988 that we would either remove the tank or fill it in this spring or summer. Tag Goodwin asked me to get an extension from NJDEP to include this removal in the plant demolition. In discussing this with Chris Marraro, the attorney working on the ECRA filing, he advised me to request this in writing from the DEP. He also said we would discuss this with the DEP during our first ECRA meeting.

Would you review, comment and approve the attached letter to the NJDEP.

AAH:dli
Attachment

842600670

Ashland

Ashland Chemical Company
DIVISION OF ASHLAND OIL, INC.

P.O. BOX 2219, COLUMBUS, OHIO 43216 • (614) 889-3333

ENGINEERING DEPARTMENT
W.L. Tordoff
Director of Engineering

July 15, 1988

Mr. Valentine Kouame
Division of Water Resources
New Jersey Department of
Environmental Protection
P.O. Box CN029
Trenton, NJ 08625

Dear Mr. Kouame:

By letter on January 14, 1988, I informed you that the neutralization unit at our Newark, New Jersey, facility would be removed or filled with sand this spring or summer. Ashland has recently filed an ECRA General Information Statement and Site Evaluation Submission as a result of potential future condemnation of a portion of the property by the New Jersey Turnpike Authority in connection with the Turnpike widening project. Plans call for the remaining portion of the plant to be demolished and a completely new state-of-the-art plant built to replace the old plant.

We are requesting permission from you to include the removal of this neutralization tank with the demolition of the plant. Ashland expects to have an approved ECRA cleanup plan ~~in 9 months and in approximately 1 month the phased construction schedule will be approved by the New Jersey DEP~~. When this phased construction schedule is approved, Ashland will begin the rebuild of the Newark plant. ~~The first phase of this rebuild is demolition of the old plant which~~ includes removal of the neutralization unit.

Please advise us if an extension for removal of this unit can be obtained.

Yours very truly,

Arlene A. Hendrickson
Environmental Engineer

AAH/dli

cc: C. Marraro/T. A. Goodwin/J. Parzych/R. S. Gose/R. L. Bever
RMA/WLT/GWH/E-7940

Ashland's Commitment
to Quality and Productivity

842600671

Please print or type in the unshaded areas only
(fill-in areas are spaced for elite type, i.e., 12 characters/inch).

Newark, New Jersey - Ashland Chemical C

Form Approved OMB No. 158-R0175

FORM 1 GENERAL

EPA

U.S. ENVIRONMENTAL PROTECTION AGENCY

GENERAL INFORMATION

Consolidated Permits Program

(Read the "General Instructions" before starting.)

I. EPA I.D. NUMBER: F N J D 0 6 0 8 0 3 9 0 5

GENERAL INSTRUCTIONS

If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data in the appropriate fill-in area below. Also, if any of the preprinted data is absent *(the area to the left of the label space lists the information that should appear)*, please provide it in the proper fill-in area(s) below. If the label is complete and correct, you need not complete Items I, III, V, and VI *(except VI-B which must be completed regardless)*. Complete all items if no label has been provided. Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected.

LABEL ITEMS

I. EPA I.D. NUMBER

II. FACILITY NAME

V. FACILITY MAILING ADDRESS

VI. FACILITY LOCATION

PLEASE PLACE LABEL IN THIS SPACE

II. POLLUTANT CHARACTERISTICS

INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of bold-faced terms.

SPECIFIC QUESTIONS	MARK 'X' YES	NO	FORM ATTACHED
A. Is this facility a publicly owned treatment works which results in a discharge to waters of the U.S.? (FORM 2A)		X	
B. Does or will this facility *(either existing or proposed)* include a concentrated animal feeding operation or aquatic animal production facility which results in a discharge to waters of the U.S.? (FORM 2B)		X	
C. Is this a facility which currently results in discharges to waters of the U.S. other than those described in A or B above? (FORM 2C)		X	
D. Is this a proposed facility *(other than those described in A or B above)* which will result in a discharge to waters of the U.S.? (FORM 2D)		X	
E. Does or will this facility treat, store, or dispose of hazardous wastes? (FORM 3)	X		X
F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)		X	
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)		X	
H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)		X	
I. Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X	
J. Is this facility a proposed stationary source which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)			X

III. NAME OF FACILITY

1 SKIP: A S H L A N D C H E M I C A L C O M P A N Y

IV. FACILITY CONTACT

A. NAME & TITLE *(last, first, & title)*	B. PHONE *(area code & no.)*
2 H E N D R I C K S O N A R L E N E A E N V R E N G R.	6 1 4 8 8 9 3 6 9 5

V. FACILITY MAILING ADDRESS

A. STREET OR P.O. BOX

3 2 2 1 F O U N D R Y S T R E E T

B. CITY OR TOWN	C. STATE	D. ZIP CODE
4 N E W A R K	N J	0 7 1 0 5

VI. FACILITY LOCATION

A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER

5 2 2 1 F O U N D R Y S T R E E T

B. COUNTY NAME

E S S E X

C. CITY OR TOWN	D. STATE	E. ZIP CODE	F. COUNTY CODE (if known)
6 N E W A R K	N J	0 7 1 0 5	

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CONTINUE ON REVE

CONTINUED FROM THE FRONT

VII. SIC CODES (4-digit, in order of priority)

A. FIRST	B. SECOND
5101 (specify) Chemicals and Allied Products	5172 (specify) Petroleum and Petroleum Products
C. THIRD	**D. FOURTH**
(specify)	(specify)

VIII. OPERATOR INFORMATION

A. NAME

ASHLAND CHEMICAL COMPANY

B. Is the name listed in Item VIII-A also the owner? [X] YES [ ] NO

C. STATUS OF OPERATOR (Enter the appropriate letter into the answer box; if "Other", specify.)

F = FEDERAL; S = STATE; P = PRIVATE; M = PUBLIC (other than federal or state); O = OTHER (specify)

P (specify)

D. PHONE (area code & no.) A 201 344 3333

E. STREET OR P.O. BOX

221 FOUNDRY STREET

F. CITY OR TOWN

NEWARK

G. STATE NJ

H. ZIP CODE 07105

IX. INDIAN LAND

Is the facility located on Indian lands? [ ] YES [X] NO

X. EXISTING ENVIRONMENTAL PERMITS

A. NPDES (Discharges to Surface Water)	D. PSD (Air Emissions from Proposed Sources)
N	P
B. UIC (Underground Injection of Fluids)	**E. OTHER (specify)**
U	9 (specify) Air permits from NJDEP for tanks and other vents
C. RCRA (Hazardous Wastes)	**E. OTHER (specify)**
R	9 (specify)

XI. MAP

Attach to this application a topographic map of the area extending to at least one mile beyond property bounderies. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in the map area. See instructions for precise requirements.

XII. NATURE OF BUSINESS (provide a brief description)

Ashland Chemical's Industrial Chemicals and Solvents Division plants are distributors and repackagers of industrial chemicals and solvents. There is bulk tank storage of some chemicals and solvents which are sold in bulk and 55-gallon drums.

XIII. CERTIFICATION (see instructions)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, 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.

A. NAME & OFFICIAL TITLE (type or print)	B. SIGNATURE	C. DATE SIGNED
Rodney G. Parsons, Vice-President & General Manager, IC&S Division	Rodney G Parsons	12/6/82

COMMENTS FOR OFFICIAL USE ONLY

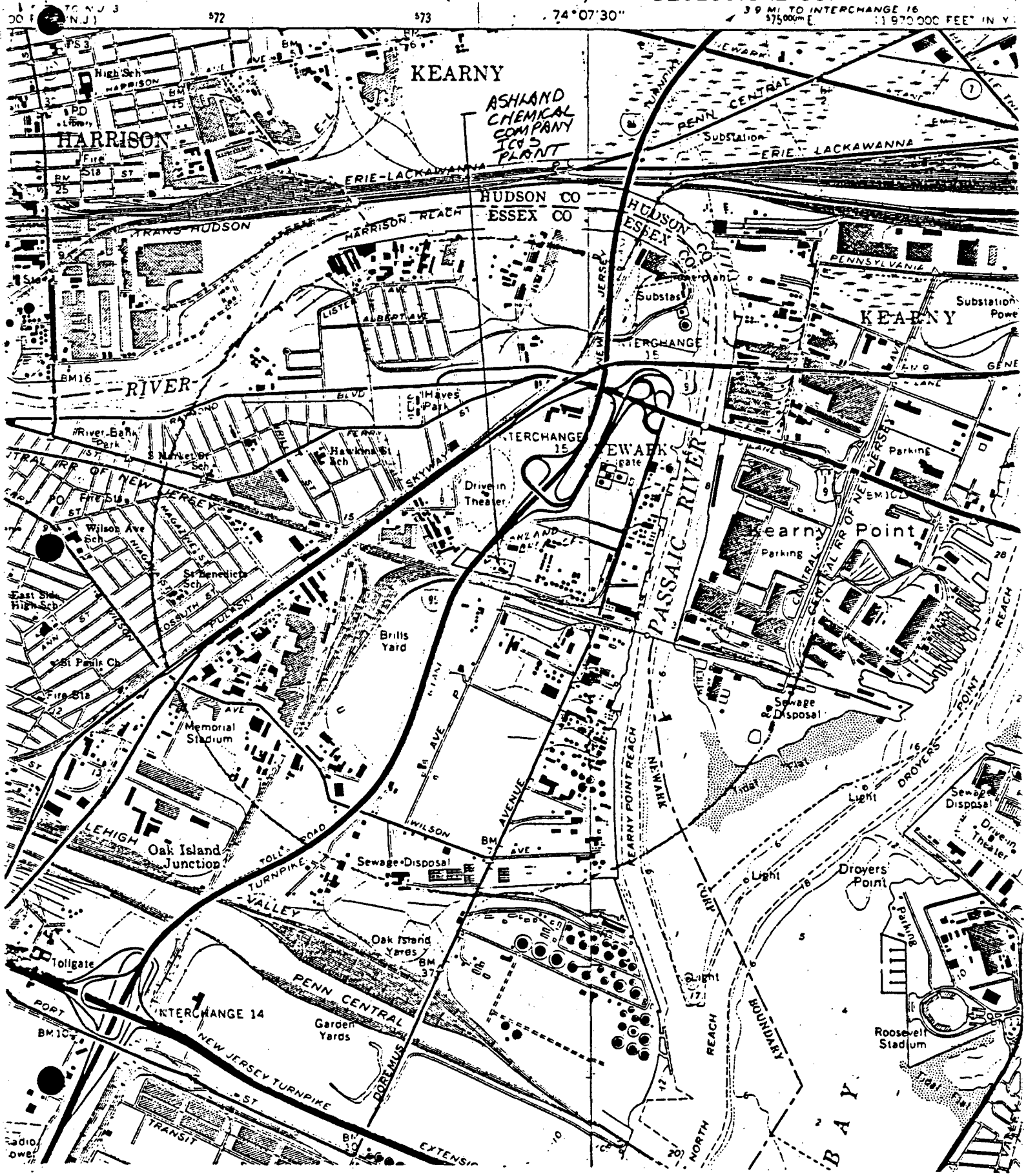
C

EPA Form 3510-1 (6-80) REVERSE

842600673

ELIZABETH QUADRANGLE
NEW JERSEY – NEW YORK
7.5 MINUTE SERIES (TOPOGRAPHIC)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



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Form Approved OMB No. 158-S80004

FORM 3 RCRA

EPA

U.S. ENVIRONMENTAL PROTECTION AGENCY

HAZARDOUS WASTE PERMIT APPLICATION

Consolidated Permits Program

(This information is required under Section 3005 of RCRA.)

I. EPA I.D. NUMBER: F N J D 0 6 0 8 0 3 9 0 5

FOR OFFICIAL USE ONLY

APPLICATION APPROVED	DATE RECEIVED (yr., mo., & day)	COMMENTS

II. FIRST OR REVISED APPLICATION

Place an "X" in the appropriate box in A or B below *(mark one box only)* to indicate whether this is the first application you are submitting for your facility o revised application. If this is your first application and you already know your facility's EPA I.D. Number, or if this is a revised application, enter your facility EPA I.D. Number in Item I above.

A. FIRST APPLICATION *(place an "X" below and provide the appropriate date)*

[X] 1. EXISTING FACILITY *(See instructions for definition of "existing" facility. Complete item below.)*

[ ] 2. NEW FACILITY *(Complete item below.)*

C	YR.	MO.	DAY
8	5 4	0 9	0 1

FOR EXISTING FACILITIES, PROVIDE THE DATE (yr., mo., & day) OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED *(use the boxes to the left)*

YR.	MO.	DAY

FOR NEW FACILITI PROVIDE THE DAT (yr., mo., & day) OPE TION BEGAN OR IS EXPECTED TO BEG

B. REVISED APPLICATION *(place an "X" below and complete Item I above)*

[ ] 1. FACILITY HAS INTERIM STATUS

[ ] 2. FACILITY HAS A RCRA PERMIT

III. PROCESSES – CODES AND DESIGN CAPACITIES

A. PROCESS CODE – Enter the code from the list of process codes below that best describes each process to be used at the facility. Ten lines are provided fo entering codes. If more lines are needed, enter the code(s) in the space provided. If a process will be used that is not included in the list of codes below, the describe the process *(including its design capacity)* in the space provided on the form *(Item III-C)*.

B. PROCESS DESIGN CAPACITY – For each code entered in column A enter the capacity of the process.

1. AMOUNT – Enter the amount.
2. UNIT OF MEASURE – For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.

PROCESS	PROCESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Storage:		
CONTAINER (barrel, drum, etc.)	S01	GALLONS OR LITERS
TANK	S02	GALLONS OR LITERS
WASTE PILE	S03	CUBIC YARDS OR CUBIC METERS
SURFACE IMPOUNDMENT	S04	GALLONS OR LITERS
Disposal:		
INJECTION WELL	D79	GALLONS OR LITERS
LANDFILL	D80	ACRE-FEET *(the volume that would cover one acre to a depth of one foot)* OR HECTARE-METER
LAND APPLICATION	D81	ACRES OR HECTARES
OCEAN DISPOSAL	D82	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	D83	GALLONS OR LITERS

PROCESS	PROCESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Treatment:		
TANK	T01	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	T02	GALLONS PER DAY OR LITERS PER DAY
INCINERATOR	T03	TONS PER HOUR OR METRIC TONS PER HOUR; GALLONS PER HOUR OR LITERS PER HOUR
OTHER *(Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided; Item III-C.)*	T04	GALLONS PER DAY OR LITERS PER DAY

UNIT OF MEASURE	UNIT OF MEASURE CODE
GALLONS	G
LITERS	L
CUBIC YARDS	Y
CUBIC METERS	C
GALLONS PER DAY	U
LITERS PER DAY	V
TONS PER HOUR	D
METRIC TONS PER HOUR	W
GALLONS PER HOUR	E
LITERS PER HOUR	H
ACRE-FEET	A
HECTARE-METER	F
ACRES	B
HECTARES	Q

EXAMPLE FOR COMPLETING ITEM III *(shown in line numbers X-1 and X-2 below)*: A facility has two storage tanks, one tank can hold 200 gallons and the other can hold 400 gallons. The facility also has an incinerator that can burn up to 20 gallons per hour.

C DUP T/A C 1

LINE NUMBER	A. PROCESS CODE (from list above)	B. PROCESS DESIGN CAPACITY 1. AMOUNT (specify)	B. PROCESS DESIGN CAPACITY 2. UNIT OF MEASURE (enter code)	FOR OFFICIAL USE ONLY	LINE NUMBER	A. PROCESS CODE (from list above)	B. PROCESS DESIGN CAPACITY 1. AMOUNT	B. PROCESS DESIGN CAPACITY 2. UNIT OF MEASURE (enter code)	FOR OFFICIAL USE ONLY
X-1	S02	600	G		5				
X-2	T03	20	E		6				
1	S01	5500	G		7				
2	T01	100	U		8				
3					9				
4					10				

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III. PROCESSES *(continued)*

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESSES *(code "T04")*. FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

IV. DESCRIPTION OF HAZARDOUS WASTES

A. EPA HAZARDOUS WASTE NUMBER — Enter the four—digit number from 40 CFR, Subpart D for each listed hazardous waste you will handle. If you handle hazardous wastes which are not listed in 40 CFR, Subpart D, enter the four—digit number*(s)* from 40 CFR, Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.

B. ESTIMATED ANNUAL QUANTITY — For each **listed waste** entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each **characteristic** or **toxic contaminant** entered in column A estimate the total annual quantity of all the non—listed waste*(s)* that will be handled which possess that characteristic or contaminant.

C. UNIT OF MEASURE — For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	P	KILOGRAMS	K
TONS	T	METRIC TONS	M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES

1. PROCESS CODES:
   For listed hazardous waste: For each listed hazardous waste entered in column A select the code*(s)* from the list of process codes contained in Item III to indicate how the waste will be stored, treated, and/or disposed of at the facility.
   For non—listed hazardous wastes: For each characteristic or toxic contaminant entered in column A, select the code*(s)* from the list of process codes contained in Item III to indicate all the processes that will be used to store, treat, and/or dispose of all the non—listed hazardous wastes that possess that characteristic or toxic contaminant.
   Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code*(s)*.

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER — Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

1. Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B,C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
2. In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line.
3. Repeat step 2 for each other EPA Hazardous Waste Number that can be used to describe the hazardous waste.

EXAMPLE FOR COMPLETING ITEM IV *(shown in line numbers X-1, X-2, X-3, and X-4 below)* — A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non—listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

LINE NO.	A. EPA HAZARD. WASTE NO (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (If a code is not entered in D(1))
X-1	K 0 5 4	900	P	T 0 3 D 8 0	
X-2	D 0 0 2	400	P	T 0 3 D 8 0	
X-3	D 0 0 1	100	P	T 0 3 D 8 0	
X-4	D 0 0 2				included with above

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IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

LINE NO.	A. EPA HAZARD. WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)			
1	D 0 0 1	100,000	G	S 0 1			
2	D 0 0 2	150,000	G	S 0 1	T 0 1		
3	F 0 0 1	40,000	G	S 0 1			
4	F 0 0 2	40,000	G	S 0 1			
5	F 0 0 3	20,000	G	S 0 1			
6	F 0 0 4	5,000	G	S 0 1			
7	F 0 0 5	20,000	G	S 0 1			
8	F 0 0 6	2,000	G	S 0 1			
9	F 0 0 7	2,000	G	S 0 1			
10	F 0 0 8	2,000	G	S 0 1			
11	F 0 0 9	2,000	G	S 0 1			
12	F 0 1 0	2,000	G	S 0 1			
13	F 0 1 1	2,000	G	S 0 1			
14	P 0 3 0	10,000	G	S 0 1			
15	K 0 8 6	20,000	G	S 0 1			
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							

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CONTINUE ON REVE

* (enter "A", "B", "C", etc. behind the "3" to identify photocopied pages)

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Continued from the front.

IV. DESCRIPTION OF HAZARDOUS WASTES *(continued)*

E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM ITEM D(1) ON PAGE 3.

EPA I.D. NO. *(enter from page 1)*

F N J D 0 6 0 8 0 3 9 0 5 | T/A | 6

V. FACILITY DRAWING

All existing facilities must include in the space provided on page 5 a scale drawing of the facility *(see instructions for more detail).*

VI. PHOTOGRAPHS

All existing facilities must include photographs *(aerial or ground-level)* that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas *(see instructions for more detail).*

VII. FACILITY GEOGRAPHIC LOCATION

LATITUDE *(degrees, minutes, & seconds)*	LONGITUDE *(degrees, minutes, & seconds)*
4 0 | 4 3 | 3 5 N	0 7 4 | 0 7 | 5 3 W

VIII. FACILITY OWNER

[X] A. If the facility owner is also the facility operator as listed in Section VIII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.

B. If the facility owner is not the facility operator as listed in Section VIII on Form 1, complete the following items:

1. NAME OF FACILITY'S LEGAL OWNER	2. PHONE NO. *(area code & no.)*
E	

3. STREET OR P.O. BOX	4. CITY OR TOWN	5. ST.	6. ZIP CODE
F	G		

IX. OWNER CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted 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.

A. NAME *(print or type)*	B. SIGNATURE	C. DATE SIGNED
Rodney G. Parsons, Vice-President & General Manager - IC&S Division	Rodney G. Parsons	12/6/82

X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted 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.

A. NAME *(print or type)*	B. SIGNATURE	C. DATE SIGNED

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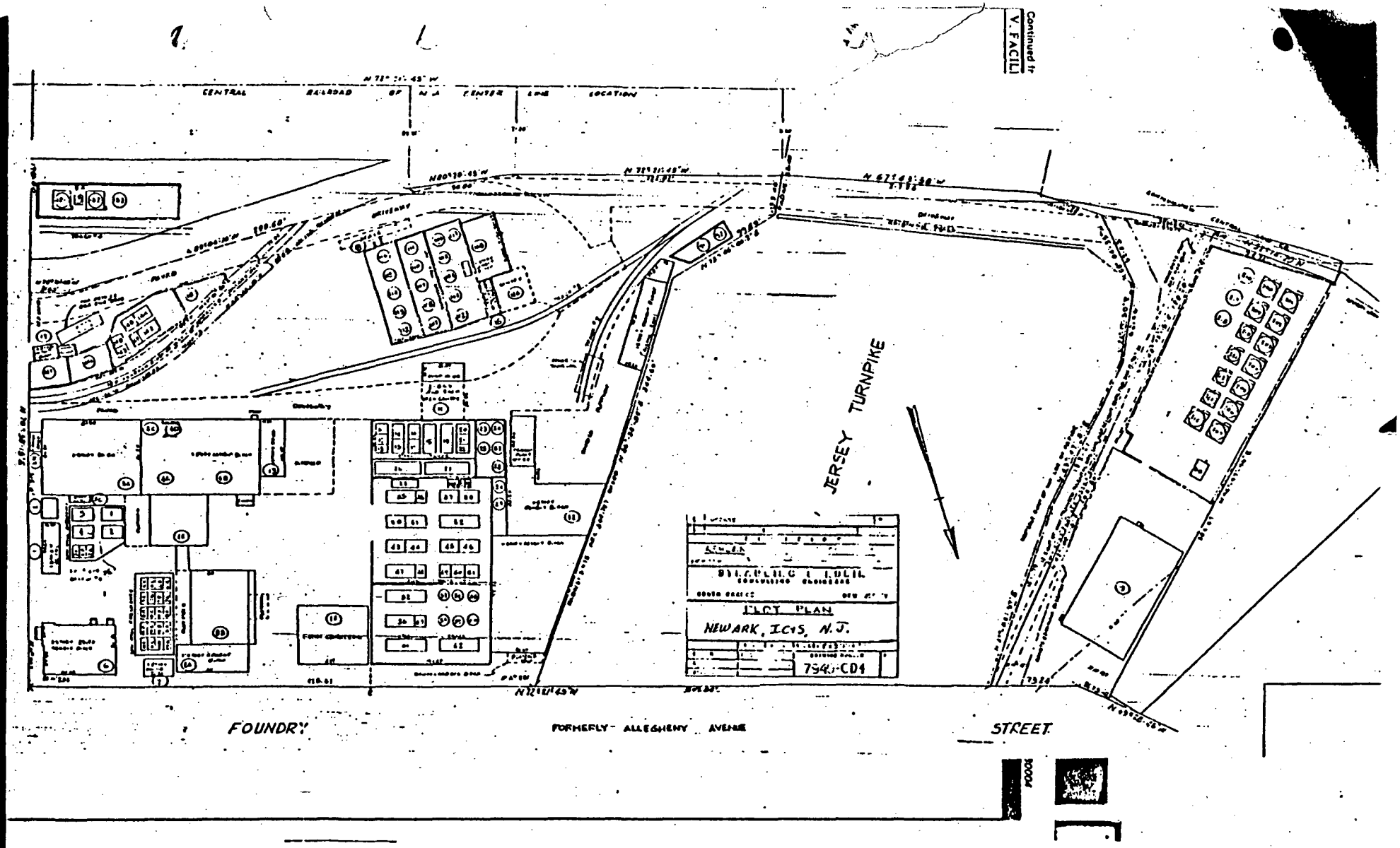
Continued fr
V. FACIL
CENTRAL RAILROAD OF N.J. CENTER LINE LOCATION
JERSEY TURNPIKE
PLOT PLAN
NEWARK, ICYS, N.J.
7940-CD1
FOUNDRY
FORMERLY - ALLEGHENY AVENUE
STREET

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