

V. Lockwood Street Outfall

A. Physical Inspection Findings

The storm sewers in Lockwood Street, Lister Avenue, Chapel Street, Albert Avenue, Euclid Avenue and the Morris Canal Right-of-Way all drain through the Lockwood Street outfall (see Plate 2). Drainage from parts of Raymond Boulevard, Ferry Street, and the Pulaski Skyway ramp are also connected to the Lockwood Street system. Separate sanitary sewers serve the entire area. All storm manholes and inlets in the study area were inspected. The limits of tidal flow were identified and all sources of dry weather flow were isolated. Chemical spills at industrial facilities were noted. The Morris Canal storm sewer west of Lockwood Street (LW-8 to MC-11) was lapped.

(1) Lister Avenue Sewer

The manholes, inlets and pipes on Lister Avenue were coated with a black oily material. Sediment depth varied between 0.5 and 1.5 feet. The source of the oil was spillage at the B-Line Trucking Company. Tank trucks are allowed to drain while parked at this facility. Black oily chemicals flow into inlets on Lister Avenue and Esther Street. The flow into Esther Street is continuous and the curb has been broken out to facilitate it.

A continuous flow of viscous orange chemicals was observed entering an inlet on Cornelia Street. This material came from leaking drums stored on the Cellomer Corporation property. These chemicals were entering the Lister Avenue storm sewer. Intermittent spillage of black oily chemicals was noted at the Fiske Brothers Refining Company railroad siding and a very small volume of water and oil from that industry was being discharged into Esther Street. Both flows

were entering the Lister Avenue storm sewer. A cooling water discharge pipe from Fiske Borthers was found at the inlet on the southwest corner of Lockwood Street and Lister Avenue. A 2-inch \pm connection was found entering inlet LS-10. Because of its diameter, it is improbable that this line contains wastes. It was not flowing when inspected. The only building near LS-10 is occupied by the State Produce Company. No dry weather flow was observed upstream of manhole LS-12 and no sources of pollution are suspected above that point.

(2) Morris Canal Sewers

Continuous flow was observed in the Morris Canal storm sewers east and west of Lockwood Street. The flow in the easterly line (LW-8 to MC-105) was traced to the Newark Boxboard Company. This flow was estimated at 0.16 mgd using depth measurements. The municipal swimming pool on Waydell Street was discharging an estimated 0.07 mgd into the westerly line upstream of manhole MC3. The car wash drains at the Sunoco Station on Raymond Boulevard were found to be connected to the storm sewer between manholes MC3 and MC-4. Personnel at Associated Auto Body and Trucks Inc. were observed dumping paint into the storm sewer between manholes MC-6 and MC-7. Manhole MC-7 is the limit of tidal influence and no dry weather flow was observed upstream of that point. A partial blockage was found in the invert of manhole MC-2. Sediment varying in depth between 0.5 and 1.0 feet was noted between manholes LW-8 and MC-7.

(3) Euclid Avenue Sewer

The flow in the Euclid Avenue storm sewer, estimated at 0.02 mgd, was traced to the Reddaway Manufacturing Company's cooling water discharge at inlet E-104.

(4) Albert Avenue Sewer

Tidal flow was observed in the Albert Avenue storm sewer up to manhole A-3. A minor, intermittent flow of water and oil from Cellomer enters the Cornelia Street gutter and flows to the Albert Avenue storm sewer. However, no dry weather flow was actually observed upstream of manhole A-3.

(5) Lockwood Street Sewer

No dry weather flow was observed in the Lockwood Street storm sewer upstream of manhole LW-8. There is no indication of pollutant sources above that point. The cross-connections shown on the sewer plans were inspected and found to be sealed. A railroad drain on the south side of the Messinger Trucking and Warehouse Corporation building appeared to be connected to the Lockwood Street sanitary sewer. Major spillage of chemicals was observed at the Atlas Refinery Inc. railroad siding. The eastern portion of this siding drains into railroad drainage ditches that are connected to the Blanchard Street storm sewer system. The discharges from Newark Boxboard, the municipal swimming pool, and Reddaway Manufacturing produce a base discharge of approximately 0.25 mgd.

(6) Lister Avenue Tide Gate

There was no evidence of chemical attack or deterioration of the concrete chamber. Sediment in the invert of the chamber prevents the Lister Avenue tide gate from closing completely. The gate allows inflow during the rising tide. Assuming a five foot tidal range and an open tide gate, approximately 270,000 gallons of river water enters with each incoming tide, mixes with pollutants being discharged into the system and flows back into the river as the tide falls. A typical diurnal flow pattern at the tide gate is shown on Plate 9. If

the tide gates were to close completely, the discharge from the system of any polluted flow would be restricted to a relatively short period around low tide.

(7) Lockwood Street Outfall

An abandoned railroad drain was found connected to manhole LS-1. The last 25 feet of the 72-inch outfall was exposed and showed evidence of chemical attack. Portion of the crown had completely deteriorated. The headwall was not deteriorated and there was no evidence of chemical attack below the spring line of the pipe.

2/3/95

associated auto body and trucks

ATTACHMENT A

REQUEST FOR INFORMATION

Background

The United States Environmental Protection Agency ("EPA") is investigating the release of hazardous substances into the Passaic River. EPA has information indicating that hazardous substances from your facility located at 405 Raymond Boulevard in Newark, New Jersey may have been discharged into the Passaic River.

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? 1970 - present

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. NJD011474921 1983-1992

NJX000307546 as of November, 1992

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. No

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

	Yes	No
2,3,7,8 tetrachlorodibenzo-p-dioxin		
or other dioxin compounds		X
Cadmium	X	
Mercury		X
Lead	X	
Nickel		X
Zinc		X
Copper	X	
Xylene	X	
Methyl ethyl ketone	X	
Benzene/ethyl benzene		X
Toluene	X	
Chlorobenzene		X

4) a) Provide a description of the manufacturing or operations 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. (See Reverse)

b) During what parts of the 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? (See Reverse)

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

ii) For each process, what amount of hazardous substances was generated per volume of finished product? 6 oz.

iii) Were these hazardous substances combined with wastes from other processes? If so, wastes from what processes? No

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: (See Reverse)

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

Jack Siegel - Regina Belowsky

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. (See Reverse)

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. (See 5)

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): none-not applicable - waste water from vehicle cleaning to floor drains to settling tank prior to discharge to municipal sewer

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

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

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

4)a) thinners used for cleaning spray guns after paint procedure.

b)and i) by product/waste would contain metals and thinner produced from the cleaning of spray guns and associated equipment. However, metals have been eliminated from the paints employed in our painting process. Presently waste thinner containing Xylene and Methyl Ethyl Ketone is collected and disposed of in accordance with all applicable state and federal regulations.

5) deposited daily in EPA approved drum - kept in outdoor locked open air storage container - Active Waste called to pick up drum 1994 - present
1992 & 1993 recycled -- prior to 1992 same as present procedure but under different EPA number and classification

b) Active Waste Technology
P.O. Box A-10
Sayreville, N.J. 08872

American Industrial Marine Services
Merola Enterprises, Inc.
VoCon

↓
Cycle Chem, Inc.
217 So. First St.
Elizabeth, N.J. 07206

Marisol, Inc.
125 Factory Lane
Middlesex, N.J. 08846

Perk Chemical Co.
217 So. First St.
Elizabeth, N.J. 07206

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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? *since start up to present*

ii) Was the waste stream treated before being discharged to the sanitary sewer and if so, how?
vehicle wash - settling tank - 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?
not applicable

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

ii) If catch basins or lagoons existed, were they lined or un-lined? *not applicable*

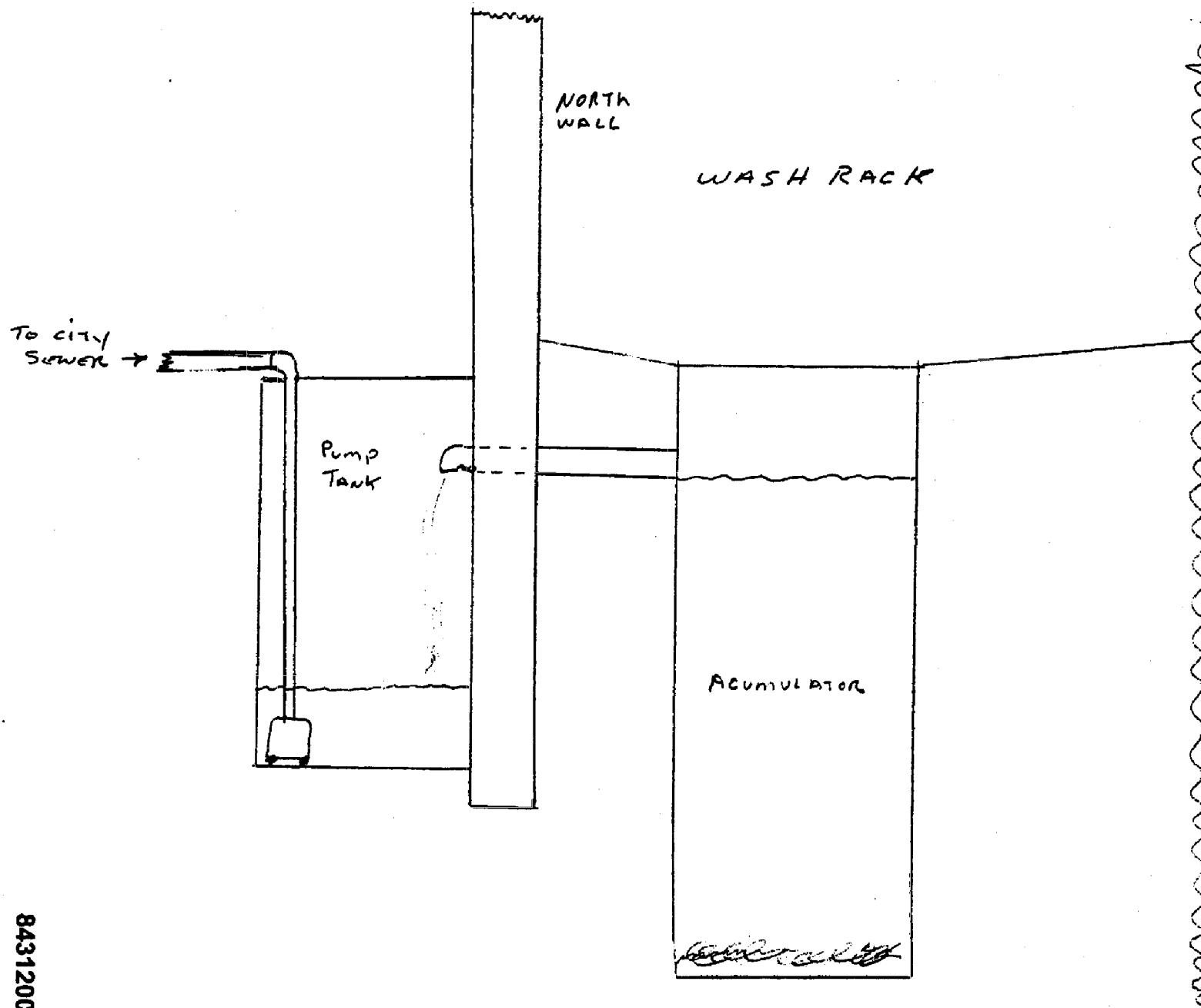
iii) Where was the discharge from any of these structures released and during what years? Was this discharge treated before its release and if so, how and during what years? *not applicable*

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

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. *92 gal. 9.2 gal. paint pigment 27.6 gal. toluene xylene MEK each*

b) Was 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.
No

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. *No*



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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. *not applicable*

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

- i) overflow from sanitary or storm sewer back-up, and/or *Yes, storm sewer overload during severe rainfall, minor flooding*
- ii) flood overflow from the Passaic River? *No*

b) Please provide the date and duration of each flood event. *records not kept on rare occasional flood events due to overload of municipal storm sewers*

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. *none*

12) 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. *see attached*

13) Provide all other documents pertaining to the results of any analyses of ground water, surface water, ambient air, and any other environmental media performed at the facility. *not applicable*

14) 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.

Yes - purchased from Kraftco Corp. 1970 - still own property

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. *not applicable*



State of New Jersey
Department of Environmental Protection and Energy
Hazardous Waste Regulation Program
Manifest Section
CN 421, Trenton, NJ 08625-0421

843120007

Please type or print in block letters. (Form designed for use on ellipse (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039. Expires 9-30-94

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NJ 001 1 4 7 4 9 2 1 7 0 7 0 6	Manifest Document No. 006	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address Associated Auto Body 405 Raymond Blvd. Newark, NJ 07105			A. State Manifest Document Number NJ 1878766		
4. Generator's Phone (201) 589-9162			B. State Generator's ID (Gen. Site Address) SAME		
5. Transporter 1 Company Name Merola Enterprises, Inc.			C. State Trans. ID-NJDEPE S 7 2 7 7		
6. US EPA ID Number NJ 001 9 8 6 6 0 9 9 4 9			Decal No.		
7. Transporter 2 Company Name			D. Transporter's Phone (201) 589-1600		
8. US EPA ID Number			E. State Trans. ID-NJDEPE		
9. Designated Facility Name and Site Address Cycle Chem Inc. (908) 355-5800 217 S. First Street Elizabeth, NJ 07206			F. Transporter's Phone ()		
10. US EPA ID Number NJ 000 2 2 0 0 0 4 6			G. State Facility's ID		
11. US DOT Description (Including Proper Shipping Name, Hazard Class or Division, HM, ID Number and Packing Group) a. <input checked="" type="checkbox"/> Waste Flammable Liquids, NOS (M.E.K., Toluene) (D001, D035, F003, F005) Class 3 UN 1993 PG II			12. Containers No. Type X X / D M		13. Total Quantity X X X 2 3
			14. Unit Wt/Vol G		15. Waste No. F 0 0 3
Additional Descriptions for Materials Listed Above L.I.L.E. Methyl Ethyl Ketone 30% F005 Toluene 30% D001 Xylene 30% D035 Paint Pigments 10%			K. Handling Codes for Wastes Listed Above a. S O I c.		
16. Special Handling Instructions and Additional Information PCR#216100IK 24 Hr. Emergency #201-589-1600 Plate # XM-67TP					
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.					
Printed/Typed Name PATRICIA NOWICKI			Signature Patricia Nowicki		Month Day Year 04/23/94
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name WILLIAM ANDREWS			Signature William Andrews		Month Day Year 04/23/94
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name			Signature		Month Day Year
19. Discrepancy Indication Space DECAL # 5473 15) ER6 #27 Diane - 5/10/94 - Cycle Chem Emergency Response Guide					
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Printed/Typed Name FICL NPA PE			Signature FICL NPA PE		Month Day Year 04/24/94

EPA Form 8700-22 (Rev. 8/89) Previous editions are obsolete.

3 - TSD MAIL TO - GENERATOR

SIGNATURE AND INFORMATION MUST BE LEGIBLE ON ALL COPIES

In case of an emergency or spill immediately call the state the emergency occurred in and the N.J. Dept. of Environmental Protection and Energy. (609) 292-7172

THIS IS YOUR INVOICE

CITY AUTO SUPPLY CO.

NEWARK, N. J. 07114

**CUSTOMER'S
ORDER NO.**

DATE _____

5/6 1994

SOLD TO

Associated
405 Raymond Blvd
Newark

MORE SOLD		MORE RET'D.		P.C.B. ON ACCT. NOTE		MISC'L		PAID OUT	
CASH	CHARGE	CASH	CREDIT						
QTY.	PART NO.	DESCRIPTION				PRICE	AMOUNT		
1	55 Gal	TRIFF					21.00		
		PAINT							
		B.G.							
		3913 70							
		<u>21.00</u>							
		4123 70							
						TAX			
						TOTAL			

SALES TAX

All claims and returned goods MUST be accompanied by this bill

N 507580

A 1 1/2% monthly charge equivalent to 18% per year will be added to all accounts more than 30 days past due. A 33 1/2% attorney fee will be added to any account forced to be turned over for collection.

843120009

**DITZLER PAINTS
FOREIGN CAR COLORS
PAINT & BODY SHOP SUPPLIES - TOOLS - EQUIPMENT**

BRANCH STORE
JERSEY CITY, N. J.
435-1555

THIS IS YOUR INVOICE

555

824-4646

NEWARK, N. J. 07114

**CUSTOMER'S
ORDER NO.**

DATE _____

5/31/94

SOLD TO

DATE
ASSOCIATED

MPS. SOLD		MPS. RETD.		MPS. ON ACC'T. MORT.		MISC'L		PAID OUT	
CASH	CREDIT	CASH	CREDIT	CASH	CREDIT	CASH	CREDIT	CASH	CREDIT
QTY.	PART NO.	DESCRIPTION				PRICE	AMOUNT		
12/8		2595					14760		
1		SS GR TRIFT					21000		
		PAINT							
		B.G.					35760		
		3295.75							
		<u>35760</u>							
		365335							
						TAX			
SALESMAN						TOTAL			

All claims and returned goods MUST be accompanied by this bill.

N 511951

A 1½% monthly charge equivalent to 18% per year will be added to all accounts more than 30 days past due. A 33¼% attorney fee will be added to any account forced to be turned over for collection.

843120010

BRANCH STORE
ORANGE, N. J.
676-1465

DITZLER PAINTS
FOREIGN CAR COLORS
PAINT & BODY SHOP SUPPLIES - TOOLS - EQUIPMENT

BRANCH STORE
JERSEY CITY, N. J.
435-155

THIS IS YOUR INVOICE

CITY AUTO SUPPLY CO.

145 FRELINGHUYSEN AVE.

824-4646

NEWARK, N. J. 07114

CUSTOMER'S
ORDER NO.

DATE

6/13/94

SOLD TO

ASSOCIATED

NEWARK

MISC. SOLD		MISC. RET.		REC'D ON ACCT. NOTE	MISC. 1	PAID OUT
CASH	CREDIT	CASH	CREDIT			
QTY.	PART NO.	DESCRIPTION		PRICE	AMOUNT	
12/8		2595		1230	14760	
1		SEM 39101			6535	
1	55	GAL TRIF			21000	
		PAINT BG			42295	
		4655.03				
		422.95				
		<u>5077.98</u>				
				TAX		
SALESMAN				TOTAL		

All claims and returned goods MUST be accompanied by this bill

All claims and returned goods MUST be accompanied by this bill

N 498217

A 1% monthly charge equivalent to 18% per year will be added to all accounts more than 30 days past due.
A 33% attorney fee will be added to any account forced to be turned over for collection.

843120011

BRANCH STORE
ORANGE, N. J.
676-1465

DITZLER PAINTS
FOREIGN CAR COLORS
PAINT & BODY SHOP SUPPLIES - TOOLS - EQUIPMENT

BRANCH STORE
JERSEY CITY, N. J.
435-1555

THIS IS YOUR INVOICE

CITY AUTO SUPPLY CO.

145 FRELINGHUYSEN AVE.

824-4646

NEWARK, N. J. 07114

CUSTOMER'S
ORDER NO.

DATE

7/5/74

SOLD TO

ASSOCIATED

Mu

PAID		MISC. RET.		REC'D ON ACCT. NOT		MISC.		PAID OUT	
CASH	CREDIT	CASH	CREDIT	CASH	CREDIT	CASH	CREDIT	CASH	CREDIT
QTY.	PART NO.	DESCRIPTION				PRICE	AMOUNT		
1	55	607 TRUFF					210.00		
		PAINT							
		BG							
		5814.63							
		210.00							
		6024.63							
						TAX			
SALESMAN						TOTAL			

All claims and returned goods MUST be accompanied by this bill

N 501616

A 1 1/2% monthly charge equivalent to 18% per year will be added to all accounts more than 30 days past due.
A 33 1/3% attorney fee will be added to any account forced to be turned over for collection.

843120012

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.

15) 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.
Associated Auto Body & Trucks, Inc.
- b) State the name and address of the president or the chairman of the board, or other presiding officers of your company. *(See reverse)*
- 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. *(See Reverse)*
- d) Provide a copy of your company's "Certificate of Incorporation" and any amendments thereto. *not available*
- e) *Incorporated in 1954*
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. *not applicable*
- f) Identify any predecessor organization and the dates that such company became part of your company. *not applicable*
- g) Identify any other companies which were acquired by your company or merged with your company. *not applicable*
- 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. *not applicable*
- i) Identify all previous owners or parent companies, address, and the date change in ownership occurred.
not applicable

15) b) Morris Siegel, President
220 Horseshoe Rd., Berkeley Heights, N.J. 07922

Jack Siegel, Vice-President
37 Hollywood Dr., Woodbridge, N.J. 07095

Regina Belowsky,, Secretary-Treasurer
22 Wellington Rd., East Brunswick, N.J. 08816

c) New Jersey
Regina Belowsky
22 Wellington Rd., East Brunswick, N.J. 08816

843120014

16) 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.

Jack Siegel, vice-president, general manager
37 Hollywood Dr., Woodbridge, N.J. 07095
(201) 589-9162 (day) (908) 634-5175 (evening)

personal knowledge of all responses relating to shop
production and processes.

Regina Belowsky, secretary-treasurer, comptroller
22 Wellington Rd., East Brunswick, N.J. 08816
(201) 589-9162 (day) (908) 257-6704 (evening)

personal knowledge of all responses relating to
administrative procedures and paperwork.

Joseph Sabolchic, environmental manager, salesperson
837 Stuyvesant Ave., Apt. 12, Irvington, N.J. 07111
(201) 589-9162 (day) (201) 399-5003 (evening)

personal knowledge of all responses relating to
chemical components and our physical plant.

CERTIFICATION OF ANSWERS TO REQUEST FOR INFORMATION

State of New Jersey :

County of Essex :

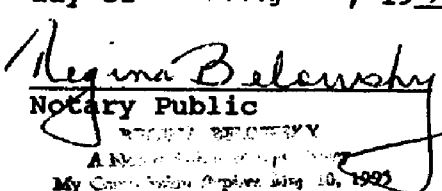
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document (response to EPA Request for Information) and all documents submitted herewith, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete, and that all documents submitted herewith are complete and authentic unless otherwise indicated. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. I am also aware that my company is under a continuing obligation to supplement its response to EPA's Request for Information if any additional information relevant to the matters addressed in EPA's Request for Information or the company's response thereto should become known or available to the company.

Morris Siegel
NAME (print or type)

President
TITLE (print or type)


SIGNATURE

Sworn to before me this 3rd
day of February, 1995


Notary Public

NOTARY PUBLIC

A Notary Public in the State of New Jersey

My Comm. Expires April 10, 1997

843120016

B. Dry Weather Flow Sampling and Flow Monitoring

Sources of dry weather flow and limits of tidal influence were noted during the physical survey. Those sewers in which flow was observed were subdivided for sampling. The first set of samples was obtained on May 2, 1978. The second set was taken on June 14, 1978. The laboratory analysis of these samples is shown in Appendix A. Both sets of samples show high levels of pollution on Lockwood Street, Lister Avenue, Albert Avenue, and the easterly portion of the Morris Canal storm sewer. The samples in the Euclid Avenue sewer fell within water quality standards. Because of tidal action, it was not possible to confirm that all high pollutant readings were caused by discharges near the respective sampling points. A discharge of pollutants anywhere in the system within the tidal range could be mixed and carried to distant sampling points. Samples were obtained at the following locations.

LW-0	Lockwood Street Outfall at the Passaic River
LS-2	Lister Avenue upstream of the tide gate chamber
LS-4	Lister Avenue upstream of Lockwood Street
LS-7	Lister Avenue at Joseph Street
LW-1	Lockwood Street upstream of Lister Avenue
LW-4	Lockwood Street upstream of Albert Avenue
LW-7	Lockwood Street downstream of the Morris Canal
A-1	Albert Avenue at Lockwood Street
A-3	Albert Avenue at Joseph Street
E-1	Euclid Avenue at Lockwood Street
E-104	Euclid Avenue (cooling water connection at inlet)
MC-1	Morris Canal at Lockwood Street (west side)
MC-3	Morris Canal 500 ft. west of Lockwood Street
MC-7	Morris Canal 1400 ft. west of Lockwood Street
MC-100	Morris Canal at Lockwood Street (east side)
MC-104	Morris Canal 800 ft. east of Lockwood Street

Euclid Avenue was eliminated from further study because of sampling results. The cooling water discharged at Reddaway Manufacturing was sampled at inlet E-104. The Morris Canal storm sewer west of Lockwood Street (LW-8 to MC-11) was eliminated on the basis of physical inspection, lamping and sampling. The intermittent sources of pollution at the Sunoco Car Wash and Associated Auto Body have been identified. The high levels of pollutants detected at manhole MC-1 in the May 2 sampling is attributed to these sources. Sediment downstream caused flow to pool at manhole MC-7 and remain there as the tide went out. Pollutants from downstream appear to have been carried into that manhole by the tide causing the contamination detected in the MC-7 sample on June 14. The 72-inch Lockwood Street Outfall was not televised because there was no evidence of pollutant sources in the line. The Benjamin Moore Company is the only industry adjacent to the outfall. Maps provided by the City of Newark show the roof drains from one building connected to the outfall. The Benjamin Moore laboratory is located in that building but there are no chemical process facilities. The plant engineer indicates that all other surface and roof drainage is pumped directly into the Passaic River. All other storm sewers in which flow was observed were scheduled for television inspection.