205318

FINAL
SITE INSPECTION PRIORITIZATION REPORT
ESSEX CHEMICAL CORP. SITE
SAYREVILLE, MIDDLESEX COUNTY, NEW JERSEY

CERCLIS ID No.: NJD002568715

VOLUME II OF III

EPA Contract No.: 68-W5-0019
TDD No.: 02-99-08-0084
Document Control No.: START-02-F-03982

July 2000

Prepared for:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Prepared by:

Region II Superfund Technical Assessment and Response Team
Roy F. Weston, Inc.
Federal Programs Division
Edison, New Jersey 08837

Essex.rpt

REFERENCE NO. 7

State of New Jersey

Christine Todd Whitman
Governor

Department of Environmental Protection

Robert C. Shinn, Jr.
Commissioner

Mr. Ben Baker
The Dow Chemical Company
2030 Dow Center
Midland, MI 48674

OCT - 3 1997

RE: Industrial Establishment: Essex Specialty Products Co.
Location:1 S. Crossman Road
Block: 251 Lot: 2
ISRA Case #E88904
Transaction: Stock Transfer
Final Remedial Action Reports dated: July 1992, May 22, 1997 and June 2, 1997

Dear Mr. Baker:

Pursuant to the authority vested in the Commissioner of the New Jersey Department of Environmental Protection (NJDEP) by the Industrial Site Recovery Act (ISRA), N.J.S.A. 13:1K-6 et seq., and duly delegated to the Assistant Director of the Industrial Site Evaluation Element pursuant to N.J.S.A. 13:1B-4, the proposal for no further action at the above referenced Industrial Establishment is hereby approved. This approval is based upon information provided to the NJDEP, and the NJDEP's inspection of the site.

This notice will serve to release the Remediation Funding Source to Essex Chemical Corporation and Essex Specialty Products, Inc. for the Administrative Consent Order signed on October 20, 1988 and any other funds held pending compliance with ISRA.

This approval is based on the implementation and completion of the Remedial Action Workplan and any addenda in accordance with the terms of the September 21, 1990 Department approval. Bis(2-ethylhexyl) phthalate exist on site above the current residential and impact to ground water remediation criteria. However, these contaminant concentrations are within an order of magnitude of the current criteria in accordance with N.J.S.A. 58:10B.

This approval is limited to the above referenced transaction only and shall not restrict or prohibit the NJDEP or any other agency from taking regulatory action under any other statute, rule or regulation. By issuing this No Further Action approval letter, NJDEP continues to reserve all rights to pursue any penalties allowable under the law for violations of ISRA associated with above referenced transaction.

Sincerely,

Wayne C. Howitz, Assistant Director
Industrial Site Evaluation Element

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REFERENCE NO. 8

SUMMARY OF SAMPLING AND ANALYTICAL TESTING PROGRAM OCTOBER 24, 1996 SAMPLING EVENT

Essex Specialty Products, Inc.
One Crossman Road South
Sayreville, New Jersey
ISRA Case No. 88904

Prepared for:

Essex Specialty Products, Inc.
710 Route 46 East, Suite 401
Fairfield, New Jersey 07004

December 1996

90X4293

Prepared by:

Woodward-Clyde Consultants
201 Willowbrook Boulevard
Wayne, New Jersey 07470

Ref. No. 8 pg. 1

Woodward-Clyde

Engineering & sciences applied to the earth & its environment

December 9, 1996
90X4293

Ms. Grace Jacob
New Jersey Department of Environmental Protection
Division of Responsible Party Site Remediation
401 East State Street, CN 028
Trenton, New Jersey 08625-0028

Re: **Summary of Sampling and Analytical Testing Program**
October 24, 1996 Sampling Event
Essex Specialty Products, Inc. Facility
Sayreville, New Jersey
ISRA Case No. 88904

Dear Ms. Jacob:

In accordance with the approved Implementation Schedule dated May 24, 1996, groundwater sampling activities were performed by Woodward-Clyde Consultants (Woodward-Clyde) on October 24, 1996 at the Essex Specialty Products, Inc. (ESP) facility located in Sayreville, New Jersey. This report describes the field sampling program and summarizes the results of the analytical testing program.

FIELD ACTIVITIES

As specified in the Implementation Schedule, samples from monitoring wells MW-7S, MW-8S, OW-2S and OW-4S, and the drainage ditch (sample DD-2) were collected on October 24, 1996. The sampling locations are depicted in Figure 1. All samples were collected in accordance with the sampling protocol outlined in the May 1992 NJDEP Field Sampling Procedures Manual. The samples were placed in cooled shuttles immediately after collection and shipped to Nytest Environmental, Inc. (NEI) of Port Washington, New York for analytical testing. In addition to these four monitoring wells, groundwater level measurements were obtained from monitoring wells MW-1S, MW-5S, MW-6S, MW-9S, OW-3S, OW-107S and OW-111S to permit current groundwater flow directions at the site to be determined. Well sampling logs are provided in Attachment 1; a groundwater flow plot for this sampling event is provided in Figure 2.

RESULTS OF ANALYTICAL TESTING AND DISCUSSION

The samples collected from monitoring wells MW-7S, MW-8S, OW-2S and OW-4S were analyzed for benzene, toluene, ethylbenzene, total xylene and bis(2-ethylhexyl) phthalate (BEHP). The drainage ditch sample, DD-2, was only analyzed for BEHP. A summary of the results of analytical testing performed on these samples is presented in Table 1; the analytical report from NEI is provided in Attachment 2. As indicated by the table, none of the

Wayne Office
P.O. Box 290 • 201 Willowbrook Boulevard • Wayne, New Jersey 07470
201-785-0700 • 212-626-2878 • Fax 201-785-0023

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Woodward-Clyde

groundwater results exceeded the applicable NJDEP Groundwater Cleanup Standard. The concentration of BEHP reported for surface water sample DD-2 (i.e., 1JB ppb) does not exceed the NJDEP Surface Water Quality Criterion of 1.76 ppb. The BEHP results for samples DD-2 and FB1024 were negated during the data validation process due to method blank contamination. The Data Validation Summary for this sampling event is provided in Attachment 3.

A comparison of the results of analytical testing for this sampling event and the four previous sampling events is provided in Table 2. These data indicate that, although the BEHP results for monitoring well MW-7S (the well historically containing the greatest levels of BEHP) vary over the past five sampling rounds, a trend exists suggesting a reduction in BEHP concentration over time.

If you have any questions or require any further information regarding this document, please do not hesitate to call us.

Very truly yours,

Peter A. Reynolds
Assistant Project Manager

Robert G. Gaibrois
Project Manager

PAR:lkj

Woodward-Clyde

Memorandum

To: R. Gaibrois

From: A. Racine al

Office: Wayne, NJ

Date: November 14, 1996

Subject: ANALYTICAL LABORATORY DELIVERABLES DATA VALIDATION SUMMARY

Project/Site:	Essex Specialty Products
Project No:	90X4293-Q
Laboratory:	Nytest Environmental, Inc.
Laboratory Report No.:	29553
Validation by:	A. Racine

Findings and Comments

1. Data validation was conducted on the above referenced laboratory report using the attached WCC Data Validation Checklist-Reduced Deliverables Format. The laboratory report included results for the parameters discussed below. It was provided in the Reduced Laboratory Data Deliverables - Non-USEPA/CLP methods as per Section IV of Appendix A of the NJDEPE Technical Requirements for Site Remediation of June 7, 1993. These deliverables and analytical results are generally acceptable except for the qualifications listed below.

BTEX Results

- No problems were noted for the BTEX results.

Bis (2-ethylhexyl) Phthalate Results

- The matrix spike/matrix spike duplicate reported unacceptable precision for 2,4-dinitrotoluene. Although noted, the data is not qualified.
- The bis(2-ethylhexyl)phthalate results reported for samples OW-2S, MW-8S, MW-7S and DUPE are qualified as estimated values "J" due to method blank contamination.
- The bis(2-ethylhexyl)phthalate results reported for samples DD-2 and FB1024 are negated due to method blank contamination.
- No other problems were noted for the bis(2-ethylhexyl)phthalate results.

I:\PROJECTS\[illegible].DOC

The following is a cross-reference of all the samples in this sample delivery group:

Laboratory Sample No.	Field Sample No.
2955301	DD-2
2955302	OW-2S
2955303	OW-4S
2955304	MW-8S
2955305	MW-7S
2955306	MW-7SMS
2955307	MW-7SMSD
2955308	DUPE
2955309	FB1024
2955310	TB

TABLE 1
RESULTS OF ANALYTICAL TESTING PROGRAM
OCTOBER 24, 1996 SAMPLING ROUND
ESSEX SPECIALTY PRODUCTS, INC.
SAYREVILLE, NEW JERSEY FACILITY

PARAMETER	NJDEP GW CRITERIA (ug/L)	DETECTION LIMITS (ug/L)	SAMPLE IDENTIFICATION							
			FB1024	TB	OW-2S	OW-4S	MW-7S	DUPE*	MW-8S	DD-2
Benzene	1	1	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1000	1	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	700	1	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (total)	40	1	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl)phthalate	30	10	1JB	–	18B	ND	24B	24B	~~ND~~ XB	1JB

Notes:
- * DUPE was collected at MW-7S
- J - Estimated concentration
- 25ml purge for Benzene, Toluene, Ethylbenzene, Xylene (total), Bis(2-ethylhexyl)phthalate
- D - Sample extract was diluted
- ND - Compound not detected at Detection Limit

TABLE 2
COMPARISON OF ANALYTICAL TESTING RESULTS
APRIL 26, 1995; NOVEMBER 20, 1995; APRIL 22, 1996;
JULY 25,1996 and OCTOBER 24, 1996 SAMPLING EVENTS
MONITORING WELLS OW-2S, OW-4S, MW-7S AND MW-8S
ESSEX SPECIALTY PRODUCTS, INC.
SAYREVILLE, NEW JERSEY FACILITY

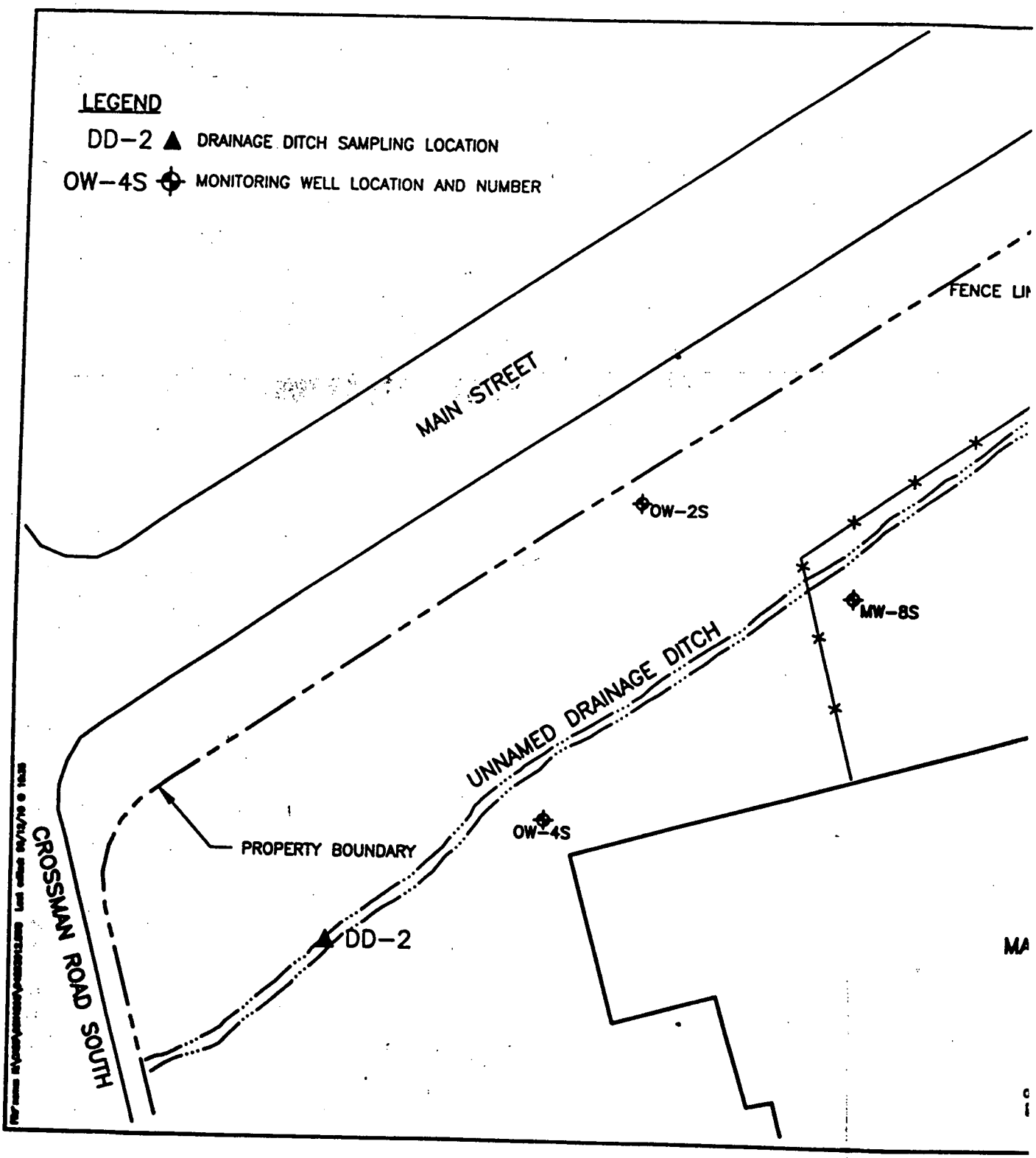
Parameter (ug/L)	NJDEP GW Criteria (ug/L)	MONITORING WELL OW-2S				
		4/26/95	11/20/95	4/22/96	7/25/96	10/24/96
Benzene	1	--	ND	ND	ND	ND
Toluene	1000	--	ND	ND	ND	ND
Ethylbenzene	700	--	ND	ND	ND	ND
Xylene (Total)	40	--	ND	ND	ND	ND
Bis(2-ethylhexyl)phthalate	30	--	1J	11	ND	16B

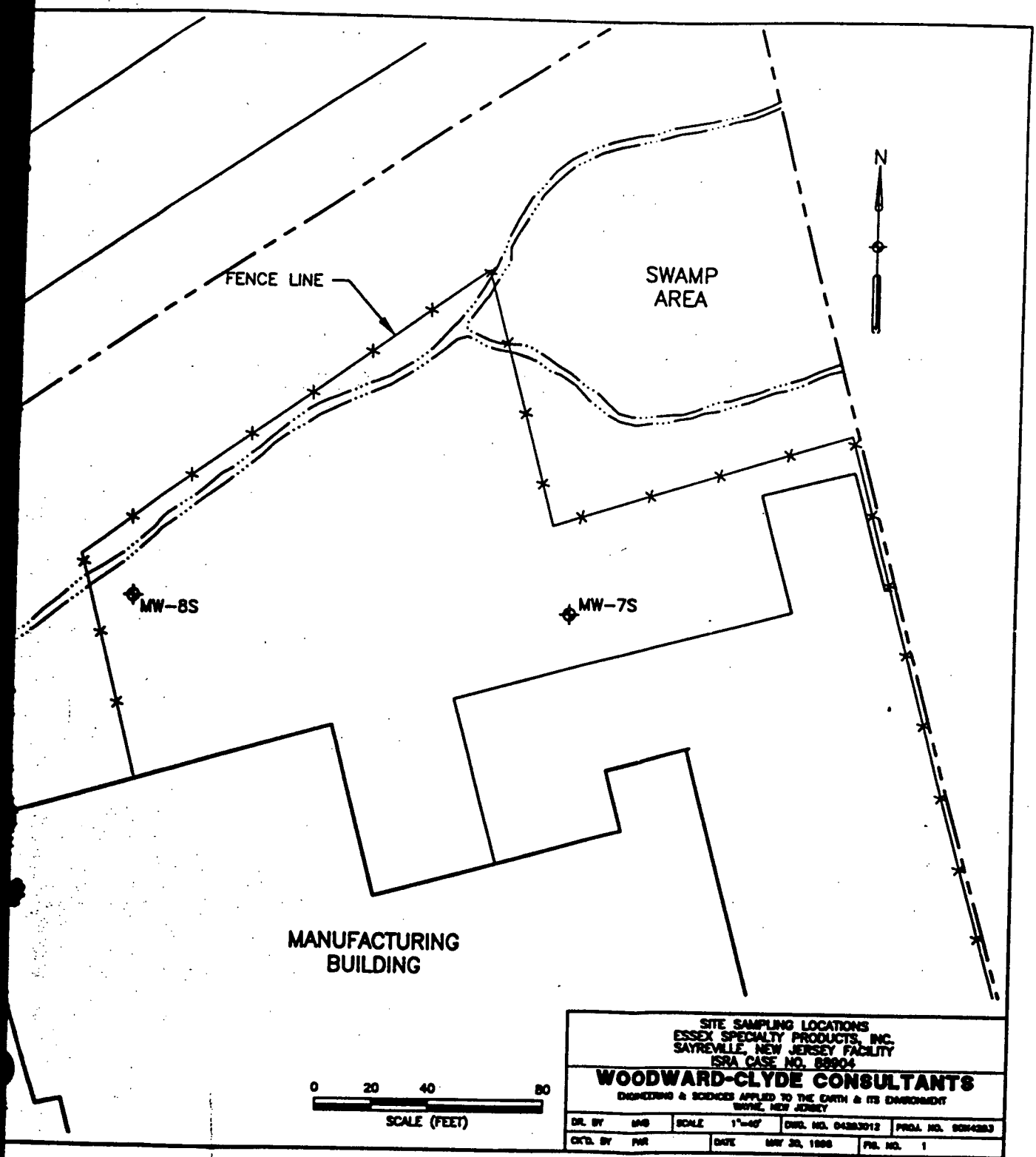
Parameter (ug/L)	NJDEP GW Criteria (ug/L)	MONITORING WELL OW-4S				
		4/26/95	11/20/95	4/22/96	7/25/96	10/24/96
Benzene	1	--	ND	ND	ND	ND
Toluene	1000	--	ND	ND	ND	ND
Ethylbenzene	700	--	ND	ND	ND	ND
Xylene (Total)	40	--	ND	ND	ND	ND
Bis(2-ethylhexyl)phthalate	30	--	ND	ND	ND	ND

Parameter (ug/L)	NJDEP GW Criteria (ug/L)	MONITORING WELL MW-7S				
		4/26/95	11/20/95	4/22/96	7/25/96	10/24/96
Benzene	1	ND	ND	ND	ND	ND
Toluene	1000	ND	ND	ND	ND	ND
Ethylbenzene	700	ND	ND	ND	ND	ND
Xylene (Total)	40	ND	ND	ND	ND	ND
Bis(2-ethylhexyl)phthalate	30	29OJ	88D	11	62B	24B

Parameter (ug/L)	NJDEP GW Criteria (ug/L)	MONITORING WELL MW-8S				
		4/26/95	11/20/95	4/22/96	7/25/96	10/24/96
Benzene	1	ND	ND	ND	ND	ND
Toluene	1000	ND	ND	ND	ND	ND
Ethylbenzene	700	ND	ND	ND	ND	ND
Xylene (Total)	40	ND	ND	ND	ND	ND
Bis(2-ethylhexyl)phthalate	30	ND	ND	ND	ND	ND

Notes: J - Estimated concentration
25ml purge for BTEX; Detection limit = 1.0 ug/L
Detection limit for Bis(2-ethylhexyl)phthalate = 10 ug/L
E - Reported concentration outside instrument calibration range
D - Sample extract was diluted
Bold numbers indicate values which exceed NJDEP groundwater quality standards


LEGEND
DD-2 DRAINAGE DITCH SAMPLING LOCATION
OW-4S MONITORING WELL LOCATION AND NUMBER
MAIN STREET
FENCE LI
OW-2S
MW-8S
UNNAMED DRAINAGE DITCH
PROPERTY BOUNDARY
OW-4S
DD-2
CROSSMAN ROAD SOUTH
MA



SITE SAMPLING LOCATIONS
ESSEX SPECIALTY PRODUCTS, INC.
SAYREVILLE, NEW JERSEY FACILITY
ISRA CASE NO. 88904

WOODWARD-CLYDE CONSULTANTS

ENGINEERING & SCIENCES APPLIED TO THE EARTH & ITS ENVIRONMENT
WAYNE, NEW JERSEY

DR. BY MVB	SCALE 1"=40'	DWG. NO. 04283012	PROJ. NO. 90N4283
CK'D. BY PAR	DATE MAY 30, 1998	FIG. NO. 1	

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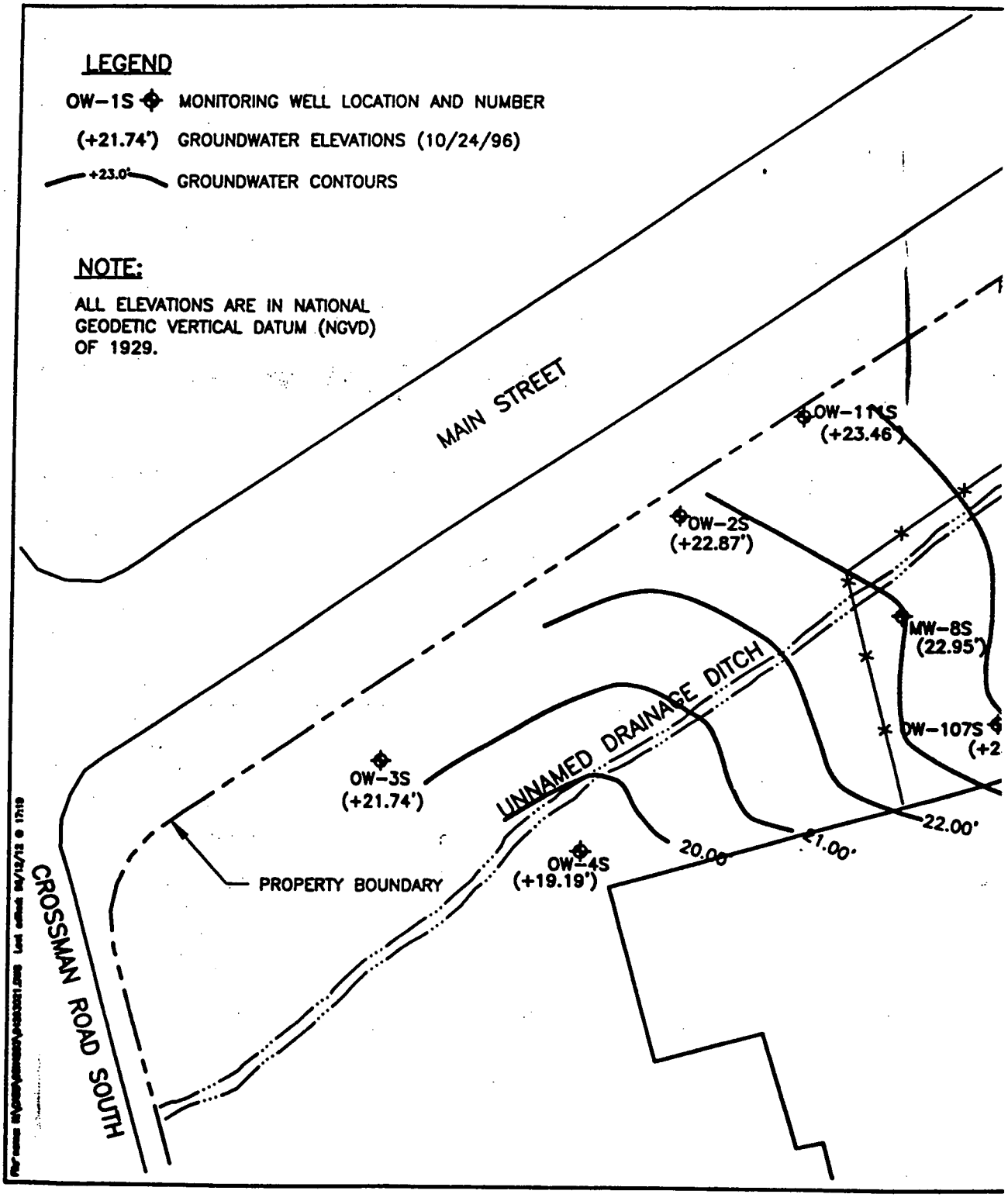
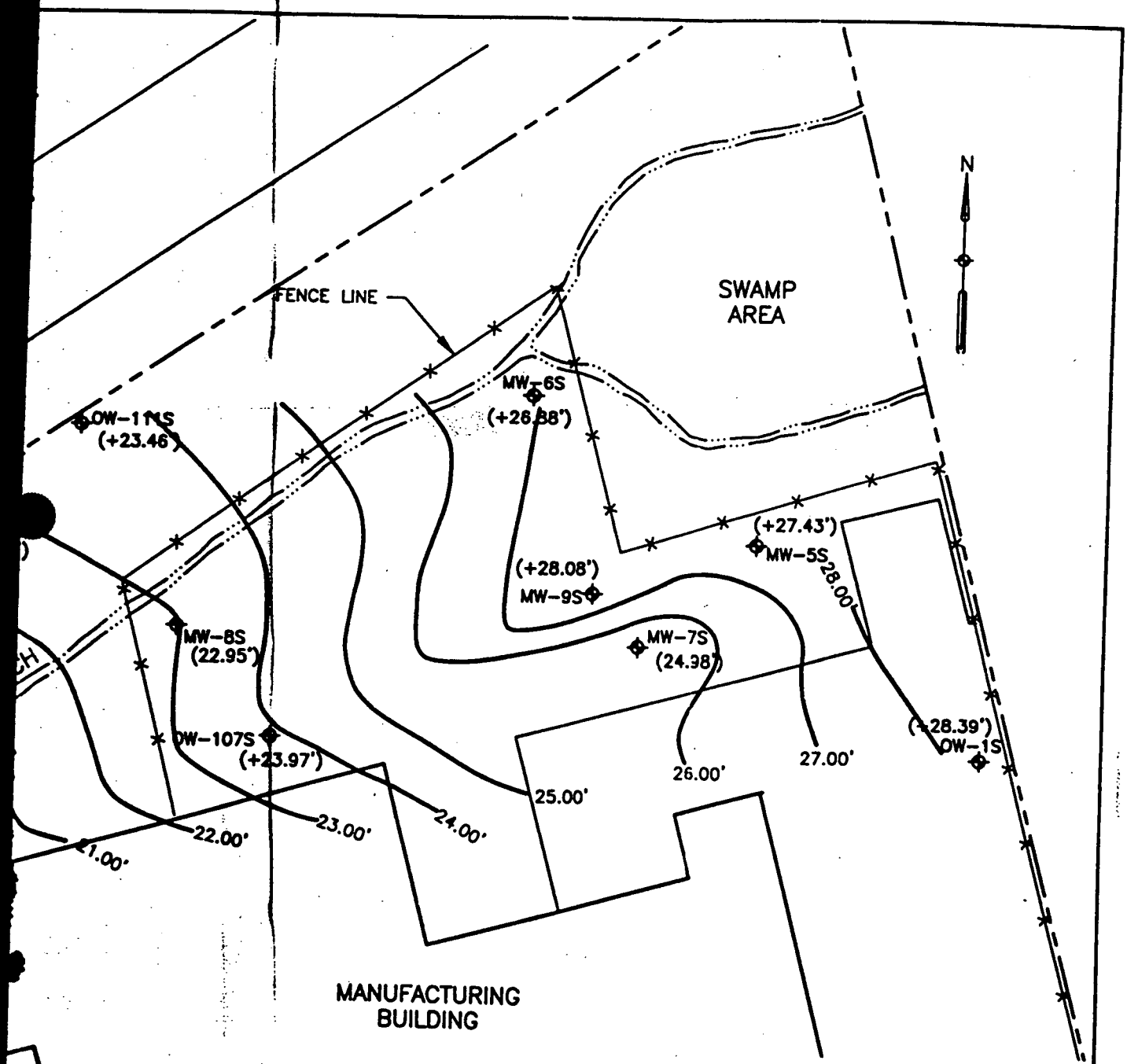

LEGEND
OW-1S MONITORING WELL LOCATION AND NUMBER
(+21.74') GROUNDWATER ELEVATIONS (10/24/96)
+23.0' GROUNDWATER CONTOURS
NOTE:
ALL ELEVATIONS ARE IN NATIONAL GEODETIC VERTICAL DATUM (NGVD) OF 1929.
MAIN STREET
OW-11S (+23.46')
OW-2S (+22.87')
MW-8S (22.95')
OW-107S
UNNAMED DRAINAGE DITCH
OW-3S (+21.74')
OW-4S (+19.19')
PROPERTY BOUNDARY
CROSSMAN ROAD SOUTH
20.00
21.00'
22.00'



0 20 40 80
SCALE (FEET)

OCTOBER 24, 1996 GROUNDWATER FLOW PLOT
ESSEX SPECIALTY PRODUCTS, INC.
SAYREVILLE, NEW JERSEY FACILITY
ISRA CASE NO. 88904

WOODWARD-CLYDE CONSULTANTS
ENGINEERING & SCIENCES APPLIED TO THE EARTH & ITS ENVIRONMENT
WAYNE, NEW JERSEY

DR. BY	J.	SCALE	1"=40'	DWG. NO. 04283021	PROJ. NO. 93H4253
CK'D. BY	PAR	DATE	NOV 26, 1996	FIG. NO.	2

WELL SAMPLING LOG
ESSEX SPECIALTY PRODUCTS
SAYREVILLE, NEW JERSEY

Date: 10/24/96

Project: ESP

Inspectors: Peter Reynolds
Michael Rivers

Project No: 90X4293

Well I.D. No. OW-4S

Well Condition: GOOD

Well Type: MONITORING

Lock No.: 712

Reference Point: Top Of Riser

Well Depth (ft) / Diameter (in): 17.13 bgs / 3

Depth to Water (DTW) (ft): 7.47 bgs

Water Column (ft /gal): 9.66 / 3.55

Minimum Purge Volume (gal): 10.7

Purged Volume (gal): 13

Purge Date / Time (hrs): 10/24/96 / 1118-1200

Purge Method: Submersible Pump

Purge Depth (ft): ~ 14.0

Purge Rates (gpm): ~ 0.5 gpm

DTW After Purging (ft): ~ 7.7

Purge Observations (Ullage Readings, Odor, etc.):

Color: Grey
Odor: Slight

DTW Before Sampling (ft): ~ 7.5

Sample Date / Time: 10/24/1996 / 1530

Sample Method: Stainless Steel Bailer with Teflon Leader and Check Valve

Sample Depth (ft): ~ 6.5

Analytical Lab: Nytest Environmental

Sampling Observations:

Field Parameter	Before Purging	After Purging	Before Sampling
Temperature (°C):*	18.9	19.4	18.2
pH:	4.85	5.31	5.22
Conductivity (ms):	0.13	0.11	0.12
Dissolved O_2 (mg/l):	1.23	0.23	1.46
Turbidity (NTU)	366	999	316

Comments: * Electronic temperature readings were within 0.5° C of calibrated thermometer

Weather Conditions: 60 degrees F, Sunny

Air Quality Data (ppm):
Background: 0.4
Well Head: 0.4
Purge Water: 0.4

Meters Used:
Temperature: HORIBA
pH: HORIBA
Conductivity: HORIBA
Dissolved Oxygen: HORIBA
Turbidity: HORIBA
HNu PID: DL 101

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WELL SAMPLING LOG
ESSEX SPECIALTY PRODUCTS
SAYREVILLE, NEW JERSEY

Date: 10/24/96

Project: ESP

Inspectors: Peter Reynolds
Michael Rivers

Project No: 90X4293

Well I.D. No. MW-7S

Well Condition: GOOD

Well Type: MONITORING

Lock No.: 712

Reference Point: Top Of Riser

Well Depth (ft) / Diameter (in): 6.94 bgs / 4

Depth to Water (DTW) (ft): 1.78 bgs

Water Column (ft /gal): 5.15 / 3.36

Minimum Purge Volume (gal): 10.1

Purged Volume (gal): 12

Purge Date / Time (hrs): 10/24/96 / 1540-1630

Purge Method: Submersible Pump

Purge Depth (ft): ~4.5

Purge Rates (gpm): ~0.5 gpm

DTW After Purging (ft): ~4.8

Purge Observations (Ullage Readings, Odor, etc.):

Color: Turbid to clear.
Odor: None

DTW Before Sampling (ft): ~1.8

Sample Date / Time: 10/24/1996 / 1505

Sample Method: Stainless Steel Bailer with Teflon Leader and Check Valve

Sample Depth (ft): ~3

Analytical Lab: Nytest Environmental

Sampling Observations:

Field Parameter	Before Purging	After Purging	Before Sampling
Temperature (°C):*	16.7	16.3	15.8
pH:	5.59	5.38	5.65
Conductivity (ms):	0.157	0.34	0.98
Dissolved O_2 (mg/l):	0.49	1.73	2.35
Turbidity (NTU)	167	ERROR	ERROR

Comments: * Electronic temperature readings were within 0.5° C of calibrated thermometer

Weather Conditions: 60 degrees F, Sunny

Air Quality Data (ppm):
Background: 0.4
Well Head: 0.4
Purge Water: 0.4

Meters Used:
Temperature: HORIBA
pH: HORIBA
Conductivity: HORIBA
Dissolved Oxygen HORIBA
Turbidity: HORIBA
HNu PID: DL 101

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WELL SAMPLING LOG
ESSEX SPECIALTY PRODUCTS
SAYREVILLE, NEW JERSEY

Date: 10/24/96

Project: ESP

Inspectors: Peter Reynolds
Michael Rivera

Project No: 90X4293

Well I.D. No. MW-8S

Well Condition: GOOD

Well Type: MONITORING

Lock No.: 712

Reference Point: Top Of Riser

Well Depth (ft) / Diameter (in): 8.33 bgs / 4

Depth to Water (DTW) (ft): 3.23 bgs

Water Column (ft /gal): 5.10 / 3.33

Minimum Purge Volume (gal): 10.0

Purged Volume (gal): 12

Purge Date / Time (hrs): 10/24/96 / 1300-1340

Purge Method: Submersible Pump

Purge Depth (ft): ~6

Purge Rates (gpm): ~0.5 gpm

DTW After Purging (ft): ~7.4

Purge Observations (Ullage Readings, Odor, etc.):

Color: Rust, turning slightly clearer
Odor: None

DTW Before Sampling (ft): ~3.3

Sample Date / Time: 10/24/1996 / 1610

Sample Method: Stainless Steel Bailer with Teflon Leader and Check Valve

Sample Depth (ft): ~5

Analytical Lab: Nytest Environmental

Sampling Observations:

Field Parameter	Before Purging	After Purging	Before Sampling
Temperature (°C):*	17.3	16.9	16.0
pH:	5.7	5.4	5.57
Conductivity (ms):	0.31	0.28	0.26
Dissolved O_2 (mg/l):	1.39	1.15	1.89
Turbidity (NTU)	10	10	10

Comments: * Electronic temperature readings were within 0.5° C of calibrated thermometer

Weather Conditions: 60 degrees F, Sunny

Air Quality Data (ppm):
Background: 0.4
Well Head: 0.4
Purge Water: 0.4

Meters Used:
Temperature: HORIBA
pH: HORIBA
Conductivity: HORIBA
Dissolved Oxygen: HORIBA
Turbidity: HORIBA
HNu PID: DL 101

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TOTAL ANALYTICAL SERVICES FOR A SAFE ENVIRONMENT

nytest environmental inc.

November 1, 1998

Woodward-Clyde Consultants
201 Willowbrook Blvd.
Wayne, NJ 07470

Attn: Robert Galbrois
Ref: Essex Specialty Products, Proj. #90X4293-Q
P.O. #: 90X4293-Q

Nytest Environmental, Inc., is pleased to submit our Project Number 9822462 for Login Number 29553, on your samples received 10/25/98.

We certify that this report is a true report of results obtained from our tests of this material.

Test sample(s) associated with this project will be retained for a period of thirty (30) days, unless otherwise instructed.

My staff is available to answer any questions concerning our report and we look forward to serving your future analytical needs.

Respectfully submitted,

Renee Cohen for

Lori Beyer
Laboratory Director
Nytest Environmental, Inc.

Encl:
Shipped Via:

NYS Lab ID#10195
NJ Cert.#73469

Report on sample(s) furnished by client applies to sample(s). Report on sample(s) obtained by us applies to list sampled. Information contained herein is not to be used for reproduction except by special permission. In the event that there are portions or parts of sample(s) remaining after Nytest has completed the required tests, Nytest shall have the option of returning such sample(s) to the client at the client's expense.

box 1518 □ 60 seaview blvd., port washington, ny 11050 □ (516) 625-5500
fax (516) 625-2274

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NYTEST ENVIRONMENTAL Inc.

SDG:

LABORATORY NUMBER	SAMPLE IDENTIFICATION	TYPE OF SAMPLE
2955301	DD-2	Water
2955302	OW-2S	Water
2955303	OW-4S	Water
2955304	MW-8S	Water
2955305	MW-7S	Water
2955306	MW-7SMS	Water
2955307	MW-7SMSD	Water
2955308	DUPE	Water
2955309	FB1024	Water
2955310	TB	Water

Nytest Environmental Inc.
(516) 625-5500 FAX: (516) 625-1274

Chain of Custody Record

page #: 1 of 1

Client Name: WOODWARD-CLYDE CONSULTANTS
Address: 201 WILLOWBROOK BLVD, WAYNE, NJ
Project Manager: ROBERT GAIGEOIS, PETER REYNOLDS
Phone: 201-785-0700 FAX 201-785-0025
Project Name: ESSEX SPECIALTY PRODUCTS
Project Number: 96X4293
P.O. #:
Analytical Protocol: ADL SEE CONTRACT (Deliverables)
Sampled By: PETER REYNOLDS, MIKE RIVERS

Login #: 29553
Ship to: Nytest Environmental Inc., 60 Seaview Blvd, Port Washington N.Y. 11050, Attn.: Sample Control
Date Shipped:
Carrier:
Air Bill #:
Cooler #:
C of C #:
SDG #:
NEI QT #:

Analysis Requested

Lab ID (Lab Use Only)	Sample ID (Maximum of 6 Characters)	Date Sampled	Time Sampled	Sample Description	No. of Containers: Bis(2-ethylhexyl) Phthalate	No. of Containers: BTEX Low Level
01	DD-2	10/25/96	1330	GRAB SAMPLE	2	--
02	MW-2S		1440	GROUNDWATER	2	3
03	MW-4S		1530		2	3
04	MW-8S		1610		2	3
05	MW-7S		1720		2	3
06	MW-7S		1730		2	3
07	MW-7S		1740		2	3
08	DUPE-24		1800		2	3
09	FB10-25-96		1700		2	3
10	TB	--	--	TRIP BLANK	--	2

Bin #'s In/Out (For Lab Use Only)

Comments

Relinquished by:	Date / Time	Received by:	Date / Time
Print Name:	10/25/96 1000	P. Giblin / Print Name: P. GIBLIN	10/25/96 1140
Relinquished by: / Print Name:	Date / Time	Received by: / Print Name:	Date / Time
Relinquished by: P. Giblin / Print Name: P. GIBLIN	10/25/96 1930	Received by Laboratory: / Print Name: Michael Lari	10/25/96 1930

Special Instructions:

Lab Use Only
Custody Seals: Intact / Broken / Absent
Sample Rec'd in Good Condition: Y / N
Sample Temperature: 4 Degrees Celsius
INSPECTED BY:
COMMENTS: FIELD BLANK ID should be FB1024 per P. Reynolds

CLIENT RETAINS YELLOW COPY ONLY

NYTEST ENVIRONMENTAL INC.

INTERNAL CHAIN OF CUSTODY

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample	NAME: Michael Lani	TITLE: SC
Client: WCC	Date Broken 10/25/96	Military Time Seal Broken: 1930
Login #: 29553	Analytical Parameter/Fraction: TBN 8270, 8260-25ML	

SAMPLE NO.	ALIQUOT/EXTRACT NO.	SAMPLE NO.	ALIQUOT/EXTRACT NO.
DD-2	29553-01		
OW-25	02		
OW-45	03		
MW-85	04		
MW-75	05		
MW-75MS	06		
MW-75MSD	07		
DUP	08		
FB1018	09		

DATE	TIME	RELINQUISHED BY	RECIEVED BY	PURPOSE OF CHANGE OF CUST.
10/28	12	PRINTED NAME [illegible] SIGNATURE [illegible]	PRINTED NAME Roger [illegible] SIGNATURE [illegible]	TBN 8270 Deplete
10/30	12	PRINTED NAME M. Lani SIGNATURE M. La	PRINTED NAME CUTLER SIGNATURE L. Cutler	8260-25ML
10/31	12	PRINTED NAME CUTLER SIGNATURE L. Cutler	PRINTED NAME M. Lani SIGNATURE M. La	Storage
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	
		PRINTED NAME SIGNATURE	PRINTED NAME SIGNATURE	

000003

LABORATORY DELIVERABLES

		Check if Complete
1.	Cover page, Title page listing Lab Certification# facility name & address, & date of report	✓
2.	Table of Contents	✓
3.	Summary sheets listing analytical results for all targeted and non-targeted compounds	NA
4.	Summary Table cross-referencing field ID #'s vs. Lab ID #'s	✓
5.	Document bound, paginated and legible	✓
6.	Chain of Custody	✓
7.	Methodology Summary	✓
8.	Laboratory Chronicle and Holding Time check	✓
9.	Results submitted on a dry weight basis (if applicable)	NA
10.	Method Detection Limits	NA
11.	Lab certified by NJDEPE for parameters or appropriate category of parameters or a member of the USEPA CLP	✓
12.	Non-Conformance Summary	✓

Renee Cohen for

Laboratory Manager or Environmental Consultant's Signature

11/1/96

Date

GC/MS ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY FORMAT

		No	Yes
1.	Chromatograms Labeled/Compounds Identified (Field Samples and Method Blanks)		✓
2.	GC/MS Tune Specifications		
	a. BFB Meet Criteria		✓
	b. DFTPP Meet Criteria		✓
3.	GC/MS Tune Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 series.		✓
4.	GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series		✓
5.	GC/MS Calibration Requirements		
	a. Calibration Check Compounds		✓
	b. System Performance Check Compounds		✓
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		
	a. VOA fraction		✓
	b. B/N Fraction		
	c. Acid Fraction		
7.	Surrogate Recoveries Meet Criteria		✓
	If not met, list those compounds and their recoveries which fall outside the acceptable range:		
	a. VOA Fraction		
	b. B/N Fraction		
	c. Acid Fraction		
	If not met, were the calculations checked and the results qualified as estimated?	NA	
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria (if not met, list these compounds and their recoveries which fall outside the acceptable range)		✓
	a. VOA Fraction		
	b. B/N Fraction		
	c. Acid Fraction		
9.	Internal Standard Area/Retention Time Shift Meet Criteria		✓

See next page

SBLK16: Bis(2-Ethylhexyl) Phthalate 1ug/kg

GC/MS ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY FORMAT (CONT.)

		No	Yes
10.	Extraction Holding Time Met	NA	✓
	If not met, list number of days exceeded each sample:		
11.	Analysis Holding Time Met		✓
	If not met, list number of days exceeded for each sample:		

Additional Comments: @ 30 days utilized for in-house purposes. The Method does not dictate the frequency of initial calibration providing CCC and SPC calibration requirements have been met.

Laboratory Manager: Renee Cohen for Yoi Beyer Date 1/1/96

000006

Laboratory Chronicle

Client Name: Woodward - Clyde Consultants
Date(s) of Sample Collection: 10/24/96
Date Received: 10/25/96
Sample ID: as per chain of custody

Log In No.: 29553

Organics Extraction:

1. Acids _____
2. Base/Neutrals 10/28/96
3. Pesticides/PCBs _____
4. Herbicides _____

Analysis:

1. Volatiles 10/30/96, 10/31/96
2. Acids _____
3. Base/Neutrals 10/30/96
4. Pesticides/PCBs _____
5. Herbicides _____

Section Supervisor
Review & Approval _____

Inorganics:

1. Metals _____
2. Mercury _____
3. Cyanide _____

Other Analysis:

_____

_____

_____

Section Supervisor
Review & Approval _____

Quality Control Supervisor
Review & Approval Renee Cohen

Dates are included for re-extractions and reanalysis.

000007

NARRATIVE DISCUSSION
VOLATILES - 29553

INTRODUCTION

This narrative covers the analysis of seven (7) aqueous samples in accordance with protocols based on SW-846 Method 8260.

HOLDING TIMES

The analytical holding time for this analysis was met.

CALIBRATIONS

All required minimum RRFs and maximum %RSD initial calibration requirements have been met in accordance with the method.

All required minimum RRFs and maximum %D continuing calibration requirements have been met in accordance with the method.

METHOD BLANKS

The method blank associated with these samples met method requirements.

SURROGATES

All surrogate recoveries met QC criteria.

MATRIX SPIKES

Sample MW-7 was utilized in the MS/MSD series. All spike recoveries and RPD values fell within the advisory QC limits.

INTERNAL STANDARDS

All area responses and retention times fell within an acceptable range.

SAMPLE COMMENTS

No analytical problems were encountered.

NARRATIVE DISCUSSION
SEMIVOLATILES - 29553

INTRODUCTION

This narrative covers the analysis of seven (7) aqueous samples in accordance with protocols based on SW-846 Method 8270.

HOLDING TIMES

The extraction and analytical holding times for this analysis were met.

CALIBRATIONS

All required minimum RRFs and maximum %RSD initial calibration requirements have been met in accordance with the method.

All required minimum RRFs and maximum %D continuing calibration requirements have been met in accordance with the method.

METHOD BLANKS

The method blank associated with these samples met method requirements.

SURROGATES

All samples met surrogate QC criteria.

MATRIX SPIKES

Sample MW-7S was utilized in the MS/MSD series. Ten (10) of twelve (12) spike recoveries and all RPD values fell within advisory QC limits.

INTERNAL STANDARDS

All area responses and retention times fell within an acceptable range.

SAMPLE COMMENTS

No analytical problems were encountered.

TOTAL ANALYTICAL SERVICES FOR A SAFE ENVIRONMENT

nytest environmental inc.

November 11, 1996

Ann Racine
Woodward Clyde Consultants
201 Willowbrook Blvd.
Wayne, NJ 074470

Dear Ms. Racine,

Enclosed please find the Nytest Environmental, Inc. associated with the data inquiry associated with NEI Login 29553.

Enclosed are the revised SVOA forms for samples MW-8S and MW-7S. Please replace the pages where noted in your copy of the data report.

Enclosed are the Form VIII summaries associated with the four (4) internal standards used in these analyses. Please replace pages 47-56 of your report with the pages enclosed.

If there are any other questions associated with this report, please do not hesitate to contact me at (516)625-5500.

Sincerely,

Renee Cohen

Renee G. Cohen
QA Officer

cc: Larry Singh - Nytest Environmental, Inc.

9A

box 1518 □ 60 seaview blvd., port washington, ny 11050 □ (516) 625-5500
fax (516) 625-1274

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I certify that this data package has been reviewed for the quality control and quality assurance measures for all analyzed methodologies.

Roger Cohen for

Lori Beyer
Laboratory Director

1A
VOLATI ORGANICS ANALYSIS DATA SHEL

EPA SAMPLE NO.

OW-2S

Lab Name: NYTEST ENV INC Contract: 9622462

Lab Code: NYTEST Case No.: 29553 SAS No.: SDG No.: 29553

Matrix: (soil/water) WATER Lab Sample ID: 2955302

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: M2872.D

Level: (low/med) LOW Date Received: 10/25/96

% Moisture: not dec. _____ Data Analyzed: 10/30/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene(total)	1	U

000016

FORM I VOA SW846 METHOD 8260A

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

OW-4S

Lab Name: NYTEST ENV INC Contract: 9622462

Lab Code: NYTEST Case No.: 29553 SAS No.: SDG No.: 29553

Matrix: (soil/water) WATER Lab Sample ID: 2955303

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: M2873.D

Level: (low/med) LOW Date Received: 10/25/96

% Moisture: not dec. _____ Data Analyzed: 10/30/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

000019

FORM I VOA

SW846 METHOD 8260A

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-8S

Lab Name: NYTEST ENV INC Contract: 9622462

Lab Code: NYTEST Case No.: 29553 SAS No.: SDG No.: 29553

Matrix: (soil/water) WATER Lab Sample ID: 2955304

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: M2874.D

Level: (low/med) LOW Date Received: 10/25/96

% Moisture: not dec. _____ Data Analyzed: 10/30/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene(total)	1	U

FORM I VOA SW846 METHOD 8260A

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-7S

Lab Name: NYTEST ENV INC Contract: 9622462

Lab Code: NYTEST Case No.: 29553 SAS No.: SDG No.: 29553

Matrix: (soil/water) WATER Lab Sample ID: 2955305

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: M2875.D

Level: (low/med) LOW Date Received: 10/25/96

% Moisture: not dec. _____ Data Analyzed: 10/30/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene(total)	1	U

FORM I VOA SW846 METHOD 8260A

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUPE

Lab Name: NYTEST ENV INC Contract: 9622462

Lab Code: NYTEST Case No.: 29553 SAS No.: SDG No.: 29553

Matrix: (soil/water) WATER Lab Sample ID: 2955308

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: M2878.D

Level: (low/med) LOW Date Received: 10/25/96

% Moisture: not dec. _____ Data Analyzed: 10/31/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB1024

Lab Name: NYTEST ENV INC Contract: 9622462

Lab Code: NYTEST Case No.: 29553 SAS No.: SDG No.: 29553

Matrix: (soil/water) WATER Lab Sample ID: 2955309

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: M2870.D

Level: (low/med) LOW Date Received: 10/25/96

% Moisture: not dec. _____ Data Analyzed: 10/30/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene(total)	1	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB

Lab Name: NYTEST ENV INC Contract: 9622462

Lab Code: NYTEST Case No.: 29553 SAS No.: SDG No.: 29553

Matrix: (soil/water) WATER Lab Sample ID: 2955310

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: M2871.D

Level: (low/med) LOW Date Received: 10/25/96

% Moisture: not dec. _____ Data Analyzed: 10/30/96

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
71-43-2	Benzene	1	U
108-88-3	Toluene	1	U
100-41-4	Ethylbenzene	1	U
1330-20-7	Xylene (total)	1	U

000034

FORM I VOA SW846 METHOD 8260A

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DD-2

Lab Name: NYTEST ENV INC Contract: 9622462

Lab Code: NYTEST Case No.: 29553 SAS No.: SDG No.: 29553

Matrix: (soil/water) WATER Lab Sample ID: 2955301

Sample wt/vol: 985 (g/mL) ML Lab File ID: R3369.D

Level: (low/med) LOW Date Received: 10/25/96

% Moisture: not dec. 0 dec. Date Extracted:10/28/96

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/30/96

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
117-81-7	bis(2-Ethylhexyl)phthalate	1	JB

FORM I SV-1

SW846 METHOD 8270A

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

OW-2S

Lab Name: NYTEST ENV INC Contract: 9622462

Lab Code: NYTEST Case No.: 29553 SAS No.: SDG No.: 29553

Matrix: (soil/water) WATER Lab Sample ID: 2955302

Sample wt/vol: 986 (g/mL) ML Lab File ID: R3370.D

Level: (low/med) LOW Date Received: 10/25/96

% Moisture: not dec. 0 dec. Date Extracted: 10/28/96

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/30/96

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
117-81-7	bis(2-Ethylhexyl)phthalate	I8	B

1B

SEMIVOLATI: ORGANICS ANALYSIS DATA SHEE

EPA SAMPLE NO.

OW-4S

Lab Name: NYTEST ENV INC Contract: 9622462

Lab Code: NYTEST Case No.: 29553 SAS No.: SDG No.: 29553

Matrix: (soil/water) WATER Lab Sample ID: 2955303

Sample wt/vol: 960 (g/mL) ML Lab File ID: R3371.D

Level: (low/med) LOW Date Received: 10/25/96

% Moisture: not dec. 0 dec. Date Extracted:10/28/96

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/30/96

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
117-81-7	bis(2-Ethylhexyl)phthalate	10	U

000064

FORM I SV-1 SW846 METHOD 8270A

1B

SEMIVOLATI. ORGANICS ANALYSIS DATA SHEE

EPA SAMPLE NO.

MW-8S

Lab Name: NYTEST ENV INC Contract: 9622462

Lab Code: NYTEST Case No.: 29553 SAS No.: SDG No.: 29553

Matrix: (soil/water) WATER Lab Sample ID: 2955304

Sample wt/vol: 980 (g/mL) ML Lab File ID: R3372.D

Level: (low/med) LOW Date Received: 10/25/96

% Moisture: not dec. 0 dec. Date Extracted: 10/28/96

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/30/96

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
117-81-7	bis(2-Ethylhexyl)phthalate	25	B

FORM I SV-1

SW846 METHOD 8270A

000067

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1B

SEMIVOLATIL ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-7S

Lab Name: NYTEST ENV INC Contract: 9622462

Lab Code: NYTEST Case No.: 29553 SAS No.: SDG No.: 29553

Matrix: (soil/water) WATER Lab Sample ID: 2955305

Sample wt/vol: 1000 (g/mL) ML Lab File ID: R3373.D

Level: (low/med) LOW Date Received: 10/25/96

% Moisture: not dec. 0 dec. Date Extracted: 10/28/96

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/30/96

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
117-81-7	bis(2-Ethylhexyl)phthalate	24	B

FORM I SV-1

SW846 METHOD 8270A

000070

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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUPE

Lab Name: NYTEST ENV INC Contract: 9622462

Lab Code: NYTEST Case No.: 29553 SAS No.: SDG No.: 29553

Matrix: (soil/water) WATER Lab Sample ID: 2955308

Sample wt/vol: 995 (g/mL) ML Lab File ID: R3376.D

Level: (low/med) LOW Date Received: 10/25/96

% Moisture: not dec. 0 dec. Date Extracted: 10/28/96

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/30/96

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
117-81-7	bis(2-Ethylhexyl)phthalate	24	B

FORM I SV-1

SW846 METHOD 8270A

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB1024

Lab Name: NYTEST ENV INC Contract: 9622462

Lab Code: NYTEST Case No.: 29553 SAS No.: SDG No.: 29553

Matrix: (soil/water) WATER Lab Sample ID: 2955309

Sample wt/vol: 965 (g/mL) ML Lab File ID: R3377.D

Level: (low/med) LOW Date Received: 10/25/96

% Moisture: not dec. 0 dec. Date Extracted: 10/28/96

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/30/96

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
117-81-7	bis(2-Ethylhexyl)phthalate	1	JB

FORM I SV-1

SW846 METHOD 8270A

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK16

Lab Name: NYTEST ENV INC Contract: 9622462

Lab Code: NYTEST Case No.: 29553 SAS No.: SDG No.: 29553

Matrix: (soil/water) WATER Lab Sample ID: SWB1028A

Sample wt/vol: 1000 (g/mL) ML Lab File ID: R3367.D

Level: (low/med) LOW Date Received: 00/00/00

% Moisture: not dec. 0 dec. Date Extracted: 10/28/96

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 10/30/96

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
117-81-7	bis(2-Ethylhexyl)phthalate	1	J

FORM I SV-1

SW846 METHOD 8270A

REFERENCE NO. 9

MEMORANDUM

To M. APPELBAUM

Date JULY 20, 1978

Subject REPORT: SAYREVILLE DOP LEAK

The following is provided as an overview and update on my findings regarding the recent inspections and meetings that have taken place at Sayreville concerning a DOP leak reported the week of June 26th.

Apparently on June 28th, Fred Rohm reported to the state DEP a Dioctyl-phthalate leak in one of the holding tanks on our tank farm. As a result of this reporting, a representative from the Middlesex County Health Dept. was immediately on hand to investigate the incident. He indicated that he was sanctioned by the U.S. Spill Division of the DEP to collect data and observations on the matter, to which we provided a MSDS on the material as well as a tour of the leak area. Initially, it seemed that this incident was not necessarily a dangerous one and rectification could be easily accomplished. However, shortly after the county representative left, a call came in and a return visit soon followed, of which both revealed a different disposition on the hazardous nature of the incident. Apparently some checking of various toxicity lists indicated that DOP had mutagenic capabilities. (NOTE: I have not located any such list to date specifically naming DOP as a mutagen, however, the Registry of Toxic Effects lists DOP as a teratogen and there are indications that the validity of this study is questionable.)

Albeit, a chaos resulted which led to statements indicating that we are severely contaminating the nearby water supply by allowing DOP to leak into the unnamed tributary which runs parallel to Main Street and across the front of our property. Within a short time that same day two people from the Spill Dept. showed up to take samples for analysis and to offer verbal instructions for compliance with clean-up procedures. During this time the personnel at Sayreville made every effort to comply with our obligations in this matter; one being the recommendation that we hire an outside firm to handle the clean-up, and disposal of the DOP contaminated soil and water.

The "pecking order" as I can best determine reveals that Scott McCone, environmental engineer for The Hazardous Substances Control Office, who has not been at the site to date, takes the data and determines the ramifications of the spill and recommends clean-up while Ed Stevenson, an enforcement officer, stays at the site and oversees the clean-up procedures.

The clean-up and . sposal warranted the use of a professional firm, Olson and Hassold Corp., to handle removal of the contaminated soil, install new water filters in the stream and filter the pooled water that accummulated in the swamp area at the base of our tank farm. The firm provided a quick response to our problem and aided in the matter by acting as a liaison with the state agencies.

Several problems surfaced during this period; one being the County Health Dept. representative was quite formidable even though we provided earnest efforts to comply with requirements at the time, however, he soon overstepped his bounds by various demands that were not within his jurisdiction and as a result little has been heard from that entity at this point. Another problem arose in that someone misconstrued our reporting of the incident and it was taken down as a chemical spill which probably accounted for all the immediate responses that followed the report. Also, the Supervisor of the clean-up operation was under the impression, as were myself, Bob Devine and even Ed Stevenson, that the decanted water from the filter truck could be returned to the stream once the DOP was removed. However, after one day's decanting, we learned from Mr. Stevenson that there was some question concerning the solubility of DOP (see newspaper article where Dr. Gerwitz of the EPA states "DOP is not soluble in water") and whether or not this piping back into the stream was an illegal outfall.

Approximately one week later, the federal EPA issued an inspector to the area, Mr. Costerello, for a report on the incident and a formal inspection of the plant. (See attached Bob Devine's notes on EPA inspection.) Some of the major inferences that Mr. Costerello made were that as a formulating plant, meaning we compound the majority, if not all, of our mixtures rather than chemically reacting them, we should have little problem in being in compliance with his department's regulations. Also, that we are in direct violation of the mandates of our NPDES permit. He seemed to indicate that a system of curbs or dikes around potential spill areas along with good housekeeping would solve a lot of our problems.

In conclusion, Mr. Costerello said that he would like to see SOP's on any preventive measures we instituted concerning spill control, good housekeeping, etc., as well as information concerning corrective measures that would be instituted in the event of a spill. He intends to forward a copy of his inspection

to the Sayreville facility which outlines some of the above-mentioned requirements. Also, I believe that as a result of his investigation and the non-compliance with our first spill incident that some punitive measures in terms of a fine will be forthcoming.

R. J. Majos
Richard J. Majos

/ed

cc: W. Corydon
R. Devine
W. Leuchten

NOTES ON EPA INSPECTION, SAYREVILLE

7-07-78

There was a Federal EPA inspector at Sayreville's Essex plant on July 7, 1978. The visitors were Mr. Costerello from the Federal EPA and Mr. Stevenson from the State Environmental Protection. At the meeting with them were Fred Rohm, Plant Engineer, Sayreville plant, Rick Majos, from Essex Corporate Legal, and Andy Soos from Industrial Division, Essex. As a result of this inspection the Federal Environmental Protection will be sending us a letter asking for procedures for the prevention of spills. The following are several major points that the Federal Inspector made concerning our permits for distharging into the creek:

1. We have no permit for the water runoff from the employees parking lot into the creek.

2. That we are obliged to notify the EPA about any changes in our operation that would affect volume of quality from the discharge points for which we have permits.

3. We should apply for a permit for the planned skimmer six months prior to the time that we plan to use it.

4. There should be an independent, checkable method of monitoring the flow going through the two discharges that we have to the creek. We do have water meters metering the water into the plant, meters on the individual cooling vessels as to the cool water being used and a meter on the sewer measuring the water going into the sewer system. There is no routine checking of these meters. However, we have no method of measuring ground water that we collect in the yard and run through discharge 001.

5. The inspector stressed a need for improvement in the housekeeping in the yard. He seemed to attach importance to a small spill from a split drum of waste in the tank yard area. There were some open drums that had contained wash solvent which had been pumped empty. They should have been covered.

6. As part of our skimmer design there should be a method for detecting any contaminates and identifying them.

7. The need for following the manifest system for disposing of any waste was stated. The fact that waste cannot be stored on site for an extended period of time was also mentioned. It was suggested that a system of curbs be constructed in the yard storage area to contain any runoff leaking drums.

8. Inspector pointed out that according to the terms of our permit we must make a simultaneous sample of both discharge points. This sample should be varied according to the flow rate in both of those points. Our present method of sampling the two discharge points consecutively does not meet the permit. It was also suggested that a sample container in the sample be packed in ice. It was also suggested that occassionly we send a dummy sample to our testing lab to check their accuracy.

9. It was suggested that a method of spill containment that an automatic close off device be installed in the yard drain so that if there were a spill it would not be allowed to get out to the drain to the creek.

The Federal inspector left his phone number, which is, 212-264-9825.

R. Devine

RD:pam

REFERENCE NO. 10

(fill-in areas are spaced for elite type, i.e., 12 characters/inch).

Form Approved OMB No. 158-R0175 OK

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 0 2 5 6 8 7 1 5 3 D

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: NJD002568715

III. FACILITY NAME: ESSEX CHEMICAL CORP

V. FACILITY MAILING ADDRESS: 1 CROSSMAN RD SOUTH
SAYREVILLE, NJ 08872

VI. FACILITY LOCATION: 1 CROSSMAN RD SOUTH
SAYREVILLE, NJ 08872

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	
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		
E. Does or will this facility treat, store, or dispose of hazardous wastes? (FORM 3)	X		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	
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	

SPECIFIC QUESTIONS	MARK 'X' YES	NO	FORM ATTACHED
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	
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	
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	
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	
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 ESSEX CHEMICAL CORPORATION

IV. FACILITY CONTACT

A. NAME & TITLE *(last, first, & title)*	B. PHONE *(area code & no.)*
2 BARR MICHAEL PLANT MANAGER	201 727 2100

V. FACILITY MAILING ADDRESS

A. STREET OR P.O. BOX: 3 1 CROSSMAN ROAD SOUTH

B. CITY OR TOWN	C. STATE	D. ZIP CODE
4 SAYREVILLE	NJ	08872

VI. FACILITY LOCATION

A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER: 5 1 CROSSMAN ROAD SOUTH

B. COUNTY NAME: MIDDLESEX

C. CITY OR TOWN	D. STATE	E. ZIP CODE	F. COUNTY CODE *(if known)*
6 SAYREVILLE	NJ	08872	

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

A. FIRST	B. SECOND
2891 (specify) Sealants & Adhesives	2822 (specify) Vulcanizable Elastomers

C. THIRD	D. FOURTH
[illegible]51 (specify) Paints, Varnishes, Lacquers, Enamels and Allied Coatings	(specify)

VIII. OPERATOR INFORMATION

A. NAME: ESSEX CHEMICAL CORPORATION

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 201 727 2100

E. STREET OR P.O. BOX: CROSSMAN ROAD SOUTH

F. CITY OR TOWN: SAYREVILLE

G. STATE: NJ

H. ZIP CODE: 08872

IX. INDIAN LAND

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

X. EXISTING ENVIRONMENTAL PERMITS

A. NPDES (Discharges to Surface Water): N NJ0003093

B. UIC (Underground Injection of Fluids): U ~~N/A~~

C. RCRA (Hazardous Wastes): R ~~N/A~~

D. PSD (Air Emissions from Proposed Sources): 9 P ~~N/A~~

E. OTHER (specify): 9 045375 (specify) N.J. DEP Permit to construct, install & operate Air Pollution Equipment

E. OTHER (specify): 9 ~~N/A~~ (specify)

XI. MAP

Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. 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. F9: A/52

XII. NATURE OF BUSINESS (provide a brief description)

Manufacturer of Industrial Sealants and Adhesives, Industrial Coatings, and Vulcanizable Elastomers

F9: A/51

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
[illegible]orge E. Shepherd Vice President		11/18/80

COMMENTS FOR OFFICIAL USE ONLY

Ref. No. 10P.2

All entries are special for print type, i.e., 12 characters/inch).

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

S													T/A	C
F	N	J	D	0	0	2	5	6	8	7	1	5	3	1

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 or a 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's 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.)*

FOR EXISTING FACILITIES, PROVIDE THE DATE *(yr., mo., & day)* OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED *(use the boxes to the left)*

C	YR.	MO.	DAY
8	65	04	01

FOR NEW FACILITIES, PROVIDE THE DATE *(yr., mo., & day)* OPERATION BEGAN OR IS EXPECTED TO BEGIN

YR.	MO.	DAY

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 for 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, then 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	UNIT OF MEASURE	UNIT OF MEASURE CODE	UNIT OF MEASURE	UNIT OF MEASURE CODE
GALLONS	G	LITERS PER DAY	V	ACRE-FEET	A
LITERS	L	TONS PER HOUR	D	HECTARE-METER	F
CUBIC YARDS	Y	METRIC TONS PER HOUR	W	ACRES	B
CUBIC METERS	C	GALLONS PER HOUR	E	HECTARES	Q
GALLONS PER DAY	U	LITERS PER HOUR	H		

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.

S		T/A	C
C	DUP		1

LINE NUMBER	A. PROCESS CODE (from list above)	B. PROCESS DESIGN CAPACITY 1. AMOUNT (specify)	2. UNIT OF MEASURE (enter code)	FOR OFFICIAL USE ONLY
X-1	S02	600	G	
X-2	T03	20	E	
1	S01	5000000	G	
	02	3500000	U	
3	T03	1000	D	
4				

LINE NUMBER	A. PROCESS CODE (from list above)	B. PROCESS DESIGN CAPACITY 1. AMOUNT	2. UNIT OF MEASURE (enter code)	FOR OFFICIAL USE ONLY
5				
6				
7				
8				
9				
10				

CONTINUE ON REVERSE

Continued from the front.

III. PROCESSES *(continued)*

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESSES *(code "T04")*. FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

N/A

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

Ref. No. 10 of 4

Continued from page 2.

NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1): W N J D 0 0 2 5 6 8 7 1 5 — T/A 3 C 1

FOR OFFICIAL USE ONLY: W DUP — T/A 3 C 2 DUP

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)				2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	D001	150,000	P	S01				
2	F003	~~Included with above~~	P	"				
3	F005	"	P	"				
4	K078	"	P	"				
5	U002	"	P	"				
6	U080	"	P	"				
7	U154	"	P	"				
8	U159	"	P	"				
9	U220	"	P	"				
10	U239	"	P	"				
11	D002	10,000	P	S01				
12	K079	~~Included with above~~	P	"				
13	D004	20,000	P	S01				
14	U028	~~Included with above~~	P	"				
15	U069	"	P	"				
16	U021	"	P	"				
17	K081	1,000	P	S01				
18	U122	2,000	P	S01				
19	U238	5,000	P	S01	T03			
20								
21								
22								
23								
24								
25								
26								

Form 3510-3 (6-80)

CONTINUE ON REVERSE

Ref. No. 10 p. 5

IV. DESCRIPTION OF HAZARDOUS WASTES *(continued)*

E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM ITEM D(1) ON PAGE 3.

N/A

F6: A/55 F6: A/56

EPA I.D. NO. *(enter from page 1)*														
F	N	J	D	0	0	2	5	6	8	7	1	5	5	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)*
40 28 31.0	074 19 08.0

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
George E. Shepherd Vice President	G E Shepherd	11/18/80

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.

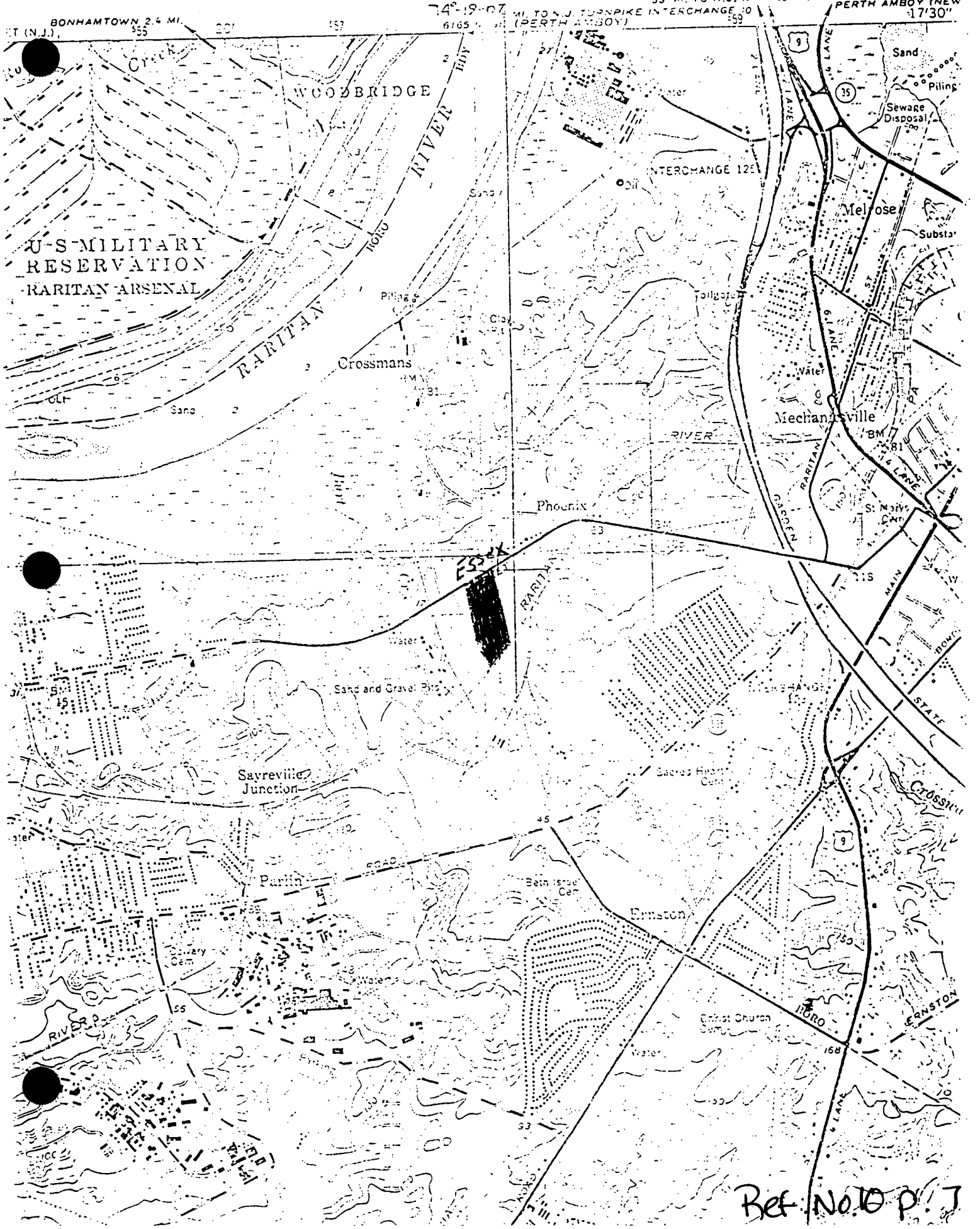
A. NAME *(print or type)*	B. SIGNATURE	C. DATE SIGNED

CONTINUE ON PAGE 5

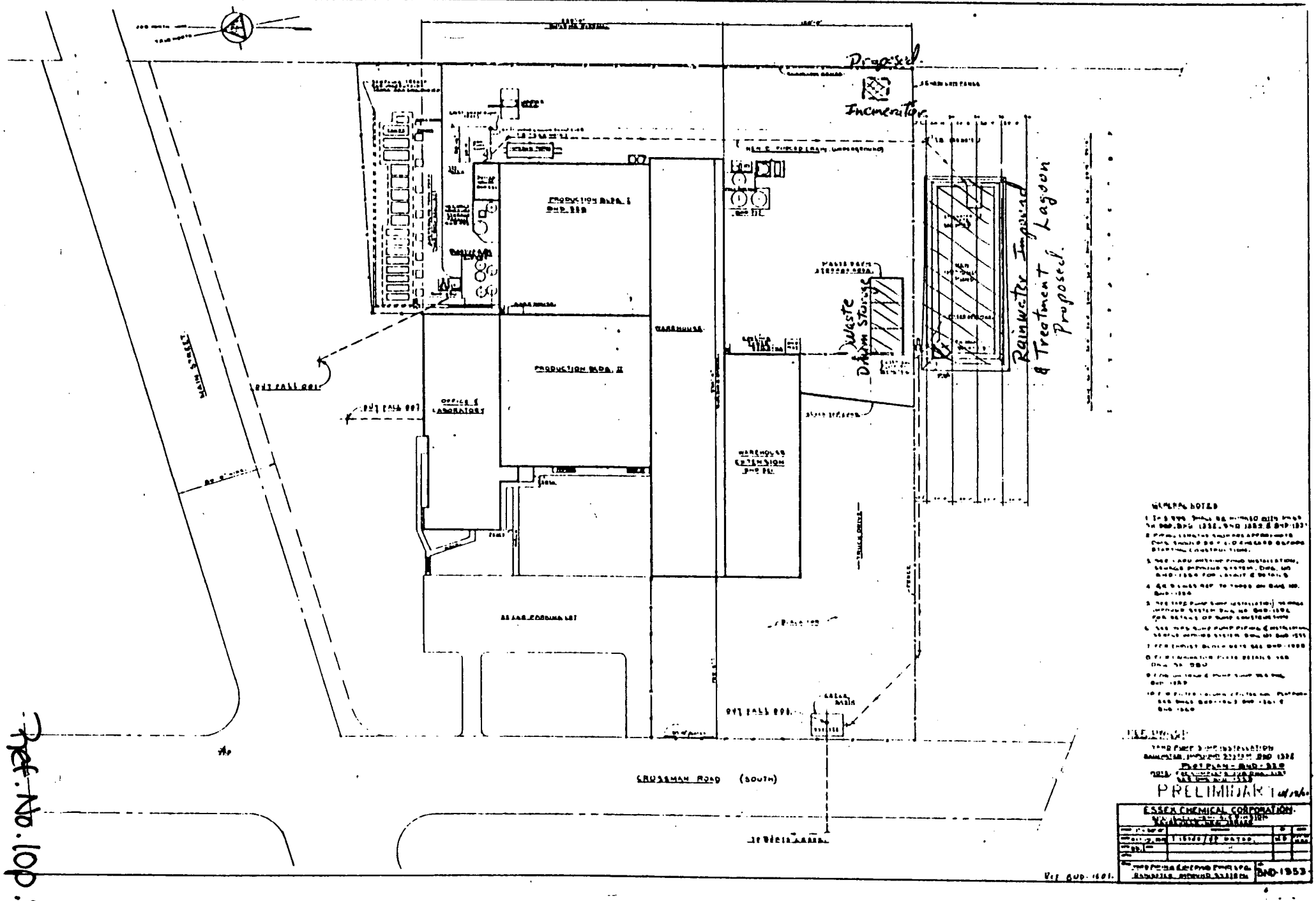
Ref. No. 10 P. 6

NJD002568715.
ESSEX CHEMICAL

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS



Ref. No. 10 p. 1


Proposed Incinerator
Rainwater Impound & Treatment Lagoon Proposed
Waste Drum Storage
PRODUCTION BLDG. I
PRODUCTION BLDG. II
WAREHOUSE
WAREHOUSE EXTENSION
OFFICE & LABORATORY
MAIN STREET
CROSSMAN ROAD (SOUTH)
GENERAL NOTES
PRELIMINARY
ESSEX CHEMICAL CORPORATION
BND-1353

Ref. No. 100.8

REFERENCE NO. 11

ESSEX CHEMICAL CORPORATION

SPECIALTY CHEMICALS DIVISION

1401 BROAD STREET · CLIFTON, N. J. 07015

EXECUTIVE OFFICES

PHONE: 201-773-6300
NEW YORK CITY: 212-962-3042
CABLE ADDRESS: ESSEXCHEM, CLIFTON, N. J.

January 26, 1982

U.S. EPA
Chief, Permits Administration Branch
26 Federal Plaza
New York, NY 10278

ATTN: Dr. Richard A. Baker

Dear Dr. Baker,

In August and November of 1980, the Essex Chemical Corporation facility located at 1 Crossman Road, South, Sayreville, New Jersey 08872, EPA ID number NJD002568715, notified the EPA of it's activity as a generator and treatment/storage/disposal facility. At the time, we planned to construct a surface impoundment and a waste incinerator. We had also applied to store the wastes for longer than 90 days, as we were concerned that unforeseen circumstances might necessitate storage of the wastes for longer than 90 days.

The surface impoundment and incinerator were not constructed and are no longer under consideration. Since the publication on January 11, 1982 in the Federal Register of the amended regulations on hazardous waste accumulation time (40CFR 262.34(b)), we feel it is no longer necessary to have storage facility status.

As a result, we would like to amend our notice to EPA to include only generation of hazardous waste.

This is our official notification of the change in item VI of our initial notification of hazardous waste activity to include only waste generation and of our withdrawal of our November, 1980 notification for TSDF interim status.

Sincerely,

Diane L. Driscoll

Diane L. Driscoll
Safety/Compliance Administrator

DLD:dj
cc: M. Barr

REFERENCE NO. 12

START-02-581

RECORD

ESSEX CHEMICAL

SAYREVILLE, N.J.

Ref. No. 12 p. 1

21 May 1999, Friday

0920 START members K. Dorneman, S. Quinn and D. Minsavage arrived at the Middlesex Co. tax office. The tax maps for Essex Chem. were reviewed and photocopied. It appears from reviewing the tax records that one lot has been subdivided. ~~the~~ (KD) Must return to the tax office Monday, 24 May 1999, morning to speak with someone regarding the discrepancy.

1630 START arrived at location of Essex Chemical. Southern end of property is now called Chemo Dynamics Inc. R&D center. Looks like offices.

Photo #1 - facing e, looking at Chemo Dynamics.

To the west of the facility, across Crossman Rd is an inactive facility - w/ old "danger, no trespassing" signs

The northern portion of the facility is now called Canfield Technologies, BOW Electronic Solders. Appears to have loading docks/warehouse area, and offices. There are approx (KD) 38 cars at Canfield Tech.

Sabert Corp. is located catty corner to Canfield Tech. (NW of the facility)

Photo #2 - (KD) Pr Showing the monitoring wells located (KD) the northern edge of the facility.

1645 Photo #3 facing SE, showing 55 gal. drums approx. 15+, contents unknown.

Drainage ditch located on the (KD) Pr northern portion of the facility. Front of facility slopes toward the north and the drainage ditch.

Southern

1658 East of the facility is heavily wooded and undisturbed land. Across Main St., North of the facility is a strip mall. The nearest home is located approx. 0.1 mile from the facility

Facility is not completely fenced. Fence is interrupted inbetween Canfield and R+D center,

Did not observe ASTs.

1700 Drainage Ditch → flows west, goes under crossman Rd, unknown where it surfaces at this time. Observed stormdrains along Crossman Rd.

1700 Finished off site recon.

8 November 1999, Monday

1300 START members K. Curran & J. Sy arrived at Canfield Technologies, former site of Essex Chemical Corporation manufacturing facility located at One Crossman Road South Sayreville, NJ Middlesex County

1310 Met with Robert McIntire, CEO, Canfield Technologies and explained reasons for conducting an on-site reconaissance

1320 Walked around the perimeter of the building with Mr. McIntire.

Photo #1 Facing South at the southern end of the building. Old Essex bay #1 fenced off area with sign reading "Dirty Solvent Drum Only."

Photo #2 Facing South at the southern end of the building. Old

Ref. No 12 p.3

Essex bays #2 & #3. Completely fenced
Sign of #2 bay reads: "Hazardous Dump
Material"; sign of #3 bay reads:
"Non-hazardous dump material"
1330 Photo #3-#5 Facing South and Southwest
at southern end of building → Former
Essex above ground tank farm
1340 Photo #6 Facing North towards southern
end of building. Two former Above
Ground tanks utilized by Essex. These
tanks are empty according to Mr. McIntire
1345 Photo #7-9 Photos taken along perimeter
of fence on eastern side of building.
Cylinders containing oxygen, acetylene,
propane + some empties; drums containing
water soluble oil; drums with hydraulic
oil according to Mr. McIntire and all
are property of Canfield Technologies
Photo #10 View of perimeter fence
facing NNE
Photo #11 Northeast corner of fenced
property are drums on pallets containing
various raw materials including cleaning
solvents, acetate, monoethanolamine,
ethanol, deionized water and isopropyl
alcohol. Some drums were empty
being staged for pick up. All are
property of Canfield Technologies
1350 Continued walking around northern
portion of manufacturing building.
Photo #12 Facing northwest, grassy
area located adjacent to drainage
ditch. Former site of UST farm??

Photo #13 facing SSW Easem side of Mfg. bldge

Photo #14 facing west at northern end of building - picture showing 3 monitoring wells located adjacent to bldg & drainage ditch.

Photo #15 facing WNW showing monitoring well and drainage ditch at northern end of property

Photo #16 Drainage ditch facing NNE

START observed a drainage gate located on concrete pad at northern end of facility. Ultimate destination of drainage water unknown.

The Canfield Technologies property is entirely fenced with "no unauthorized entry" signs. Start did not observe any daycare facilities or schools within 300ft of the site. According to Mr. McIntire, Canfield Technologies currently employees 38 people

1400 finished on-site recon with Canfield Technologies. (OVA readings were taken continuosly throughout recon. No readings were above background.)

1405 Arrived at Chemo Dynamics, former Essex Chemical Corp Site. Original Essex lot was subdivided into 2 lots (lot 2.01 containing the mfg. facility which is now property of Canfield Technologies

and lot 2.02 containing former Essex research labs which is now Chemo Dynamics) Met with Daniel Septak, Director of Engineering and explained reasons for conducting this on-site reconnaissance. According to Mr. Septak, Chemo Dynamics Inc occupied lot 2.02 in 1994 as a purchase by Ellen, LLC. In June, 1999 title was transferred to Chemo Dynamics Limited Partnership. Chemo Dynamics is a chemical synthesis research facility that performs both in house and contract research. The facility has 8 research labs plus one analytical lab as well as offices/administrative. Currently the company employs 13 people but is in the process of staffing-up.

1425 Walked around perimeter of building with Mr. Septak.

Photo #1 facing East, side of building including name plate. Building is heavily wooded on all sides.

1430 Photo #2 Photo showing rear of building.

Photo #3 facing SE, fenced in flammable storage area containing chemo-dynamics owned material (good house keeping!)

40 Photo #4 Southern end of building

containing a fenced off cylinder storage area. Material owned by Chemo Dynamics.
Mr. Septak said that property continued past building for 2.5 miles and future plans may include expansion

14.50 Photo #5 facing NE looking at front side of building.

1500 finished on-site recon and departed site.

REFERENCE NO. 13

State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION
TRENTON

Division of Coastal Resources

Please address reply to:
CN 401
Trenton, N.J. 08625-0401

Woodward-Clyde Consultants
Attn: Robert Gaibrois
201 Willowbrook Blvd.
P.O. Box 290
Wayne, NJ 07470

FEB 07 1991

Re: Authorization for Freshwater Wetlands Statewide General Permit, Waiver of Transition Area for Access, and Mitigation Plan Approval
Applicant: Essex Specialty Products
Permit #1219-90-0009.2-GP Statute N.J.S.A. 13:9B-1
Effective date FEB 07 1991. Expiration date FEB 07 1996
Block 251 and 366A; Lots 2 and 2
Borough of Sayreville, Middlesex County
Lower Raritan Watershed; Raritan Drainage Basin
Nearest stream or waterway: Burt's Creek

Dear Mr. Gaibrois:

The Bureau of Inland Regulation has reviewed the referenced application for a Freshwater Wetlands Statewide General Permit authorization pursuant to the requirements of Freshwater Wetlands Protection Act Rules at N.J.A.C. 7:7A. Based on plans entitled:

1. "Site Plan Details," consisting of 1 sheet, dated January 7, 1991, with no revisions, and prepared by Woodward Clyde Consultants, and

2. "Generalized Subsurface Section," consisting of 1 sheet, dated December 14, 1990 with no revisions and prepared by Woodward Clyde Consultants, the proposed activities are authorized by Freshwater Wetlands Statewide General Permit #4 which allows activities, including work, discharges, and the construction or placement of structures, for the investigation, cleanup and removal of hazardous substances as defined by or pursuant to the Spill Compensation and Control Act, N.J.S.A. 58:19-23.11 et seq., which are taken, authorized or otherwise approved by the Department. This letter of authorization to conduct a regulated activity in a wetland or open water includes the Division's approval of a Water Quality Certificate for these activities.

Ref. NO. 13 P. 1

Project description

The authorized activity involves the temporary loss of 0.358 of an acre of wetlands and State open waters for the excavation of contaminated soils for an ECRA clean up. Any additional disturbance of freshwater wetlands or State open waters shall be considered a violation of the Freshwater Wetlands Protection Act unless a permit is obtained prior to the start of the disturbance from the Bureau of Inland Regulation.

Mitigation Plan Approval

This permit shall also serve as approval of the proposed mitigation plan submitted by the applicant and is shown on the plan entitled, "Generalized Subsurface Section," consisting of 1 sheet, dated December 14, 1990 and prepared by Woodward Clyde Consultants and described in the submitted materials with the General permit Application. Mitigation shall consist of replacement at a ratio of one acre restored for one acre impacted.

Permit Conditions

The activities allowed by this authorization shall comply with the following conditions. Failure to comply with these conditions shall constitute a violation of the Freshwater Wetlands Protection Act (N.J.S.A. 13:9B-1 et.seq.)

Special conditions

1) Impacts to wetlands and State open waters shall not exceed 0.358 of acre. The wetlands mitigation site shall be seeded as soon as possible following placment of loam, in order the preclude erosion and sedimentation into Burt's Creek.

2) This permit is conditioned upon the Department receiving a finalized and signed copy of the attached draft Declaration of Restriction permanently preserving the mitigation area. This must include a metes and bound description of the mitigation area (an example is attached).

3) Essex Specialty Products shall be responsible for success of the wetlands mitigation, and shall monitor and maintain the mitigation area to ensure eighty-five (85) percent survival and eighty-five (85) percent area coverage of the mitigation plantings for at least three years after planting. Two site visits a year are required for the purpose of recording site progress. Data shall be collected and a written report with photographic support shall be

Ref. No. 13p2

submitted to the Division after each site visit by December 31 each year.

4) The discharge of dredged or fill material shall consist of suitable material free from toxic pollutants (see Section 307 of the Federal Act) in toxic amounts.

In addition to the above conditions and the conditions noted at N.J.A.C. 7:7A 9.2 and 9.3, the following general conditions must be met for the activity authorized under this Statewide General Permit:

General conditions:

1. This permit is revocable, or subject to modification or change at any time, when in the judgement of the Department of Environmental Protection of the State of New Jersey, such revocation, modification or change shall be necessary.

2. The issuance of this permit shall not be deemed to affect in any way other actions by the Department on any future application.

3. The activities shown by plans and/or other engineering data, which are this day approved, subject to the conditions herewith established, shall be constructed and/or executed in conformity with such plans and/or engineering data and the said conditions.

4. No change in plans or specifications shall be made except with the prior written permission of the Department.

5. The granting of this authorization shall not be construed to in any way affect the title or ownership of the property, and shall not make the Department or the State a party in any suit or question of ownership of the property.

6. This authorization is not valid and no work shall be undertaken until such time as all other required approvals and permits have been obtained.

7. A copy of this authorization shall be kept at the work site and shall be exhibited upon request of any person.

Waiver of Transition Area

The Bureau of Inland Regulation has determined that the wetlands affected by this permit authorization are of intermediate resource value. The resource value classification is the basis for determining the standard

Ref. No. 13 p. 3

width of transition area required for the wetlands affected by this permit authorization. The authorization of activities under this Freshwater Wetlands Statewide General Permit includes a transition area waiver. This waiver allows encroachment only in that portion of the transition area that has been determined by the Division to be necessary to accomplish the authorized activities.

Any additional prohibited activities conducted within the standard transition area on-site shall require a separate transition area waiver from the Division. Prohibited activities within a transition area are defined at N.J.A.C. 7:7A-6.2(a).

Duration of Authorization/Notification of Work

This authorization for a Freshwater Wetlands Statewide General Permit is valid for five years from the effective date noted in this letter. The permittee shall allow an authorized Division representative the right to inspect the construction site. The permittee will notify, in writing, the Bureau of Inland Regulation of Bureau of Enforcement 7 days prior to commencement of work authorized by this letter.

Appeal of Decision

The applicant or other affected party, if aggrieved by this decision to authorize the activities specified in this correspondence, may request a hearing on this decision by submitting a written request for an administrative hearing to the Commissioner of the Department of Environmental Protection within 30 days of the date of this decision.

Please find attached a check (#0015037) for $100.00. A portion of the $1,100.00 fee paid by the applicant with its initial request for an Individual Freshwater Wetlands Permit has been applied to your application for Statewide General Permit #4.

If you have any questions regarding this Freshwater Wetlands Statewide General Permit authorization, please contact Chandler Peter of our staff at (609) 633-6754. Please reference the permit number in any communication concerning this action.

Sincerely,

Richard A. Kantor

Richard A. Kantor
Section Chief, Raritan Region
Bureau of Inland Regulation

Ref. No. BP.4

attachments

cc. U.S. Army Corps of Engineers: New York District
Dr. Susan Halsey, DEP, DCR Planning
Bill Hadsell, Div of Hazardous Waste Management, Clean Up Oversight Section
Borough of Sayreville Planning Board
Borough of Sayreville Construction Official
Borough of Sayreville Clerk
Middlesex County Planning Board

Ref. No. 13p. 5

REFERENCE NO. 14

NJSDC 1990 Census Publication

Housing Units and Household Population

New Jersey, Counties and Municipalities

1990

April 1991

$5.00

Ref. No. 14 p. 1

NJSDC-PH90-2

NJSDC 1990 CENSUS PUBLICATION

HOUSING UNITS AND HOUSEHOLD POPULATION NEW JERSEY, COUNTIES AND MUNICIPALITIES: 1990

State of New Jersey
Jim Florio, Governor

Department of Labor
Raymond L. Bramucci, Commissioner

Division of Labor Market and Demographic Research
New Jersey State Data Center
CN 388
Trenton, New Jersey 08625-0388

March 1991

Ref. No. 14 p.2

Table 2. Housing Units, Households, and Persons in Households and Group Quarters: 1990 (Cont.)
New Jersey Municipalities by Counties

The population counts set forth herein are subject to possible correction for undercount or overcount. The United States Department of Commerce is considering whether to correct these counts and will publish corrected counts, if any, not later than July 15, 1991.

MIDDLESEX County Municipalities	(1) Total Housing Units	(2) Vacant Housing Units	(3) Total Persons	(4) Persons in Group Quarters	(5) Total Households (1)-(2)	(6) Persons in Households (3)-(4)	(7) Persons per Household (6)/(5)
MIDDLESEX COUNTY[1]	250,174	11,341	671,780	23,669	238,833	648,111	2.71
Carteret borough	6,811	210	19,025	64	6,601	18,961	2.87
Cranbury township	922	49	2,500	40	873	2,460	2.82
Dunellen borough	2,496	73	6,528	77	2,423	6,451	2.66
East Brunswick township	15,395	474	43,548	7	14,921	43,541	2.92
Edison township	32,832	1,061	88,680	1,949	31,771	86,731	2.73
Helmetta borough	522	73	1,211	0	449	1,211	2.70
Highland Park borough	6,106	327	13,279	0	5,779	13,279	2.30
Jamesburg borough	2,064	86	5,294	52	1,978	5,242	2.65
Metuchen borough	5,097	161	12,804	43	4,936	12,761	2.59
Middlesex borough	4,920	188	13,055	0	4,732	13,055	2.76
Milltown borough	2,553	57	6,968	0	2,496	6,968	2.79
Monroe township	10,303	1,012	22,255	830	9,291	21,425	2.31
New Brunswick city	13,556	845	41,711	7,425	12,711	34,286	2.70
North Brunswick township	12,186	631	31,287	1,803	11,555	29,484	2.55
Old Bridge township	21,116	1,132	56,475	270	19,984	56,205	2.81
Perth Amboy city	15,017	810	41,967	619	14,207	41,348	2.91
Piscataway township	14,575	542	47,089	6,584	14,033	40,505	2.89
Plainsboro township	7,752	929	14,213	0	6,823	14,213	2.08
Sayreville borough	13,347	598	34,986	255	12,749	34,731	2.72

continued ...

Ref. No. 14 p.3

Table 2. Housing Units, Households, and Persons in Households and Group Quarters: 1990 (Cont.)
New Jersey Municipalities by Counties

The population counts set forth herein are subject to possible correction for undercount or overcount. The United States Department of Commerce is considering whether to correct these counts and will publish corrected counts, if any, not later than July 15, 1991.

MIDDLESEX County Municipalities	(1) Total Housing Units	(2) Vacant Housing Units	(3) Total Persons	(4) Persons in Group Quarters	(5) Total Households (1)-(2)	(6) Persons in Households (3)-(4)	(7) Persons per Household (6)/(5)
South Amboy city	3,057	119	7,863	24	2,938	7,839	2.67
South Brunswick township	9,962	554	25,792	50	9,408	25,742	2.74
South Plainfield borough	6,823	118	20,489	180	6,705	20,309	3.03
South River borough	5,269	185	13,692	22	5,084	13,670	2.69
Spotswood borough	2,995	82	7,983	0	2,913	7,983	2.74
Woodbridge township	34,498	1,025	93,086	3,375	33,473	89,711	2.68

Source: 1990 Census of Population and Housing.

Ref. No. 14 p.4

REFERENCE NO. 15

FROST ASSOCIATES

88 Founders Village, Clinton, CT 06413
(860) 669-5859 FAX (860) 669-5869

November 27, 1998

To: Roy F. Weston Inc - Region II START
1090 King Georges Post Road, Suite 201
Edison, NJ

Attn: Diane Minsavage

Fr: Frost Associates
Founders Village
Clinton, Conn 06413

Tel: (203) 669-5859
Fax: (860) 669-5859

Sub: Sayreville. NJ Site

CERCLIS:

Job: 4195

Site Longitude: 74-19-06.1 74.318359
Site Latitude : 40-28-27.3 40.474251

The CENTRACTS report below identifies the population, households, and private water wells of each Block Group that lies within, or partially within, the 4, 3, 2, 1, .5, and .25, mile "rings" of the latitude and longitude coordinates above. A CENTRACTS report may have up to six radii of any length and 1500 block groups.

CENTRACTS uses the 1990 Block Group population and Block Group house count data found in the Census Bureau's 1990 STF-1A files. The sources of water supply data are from The Bureau's 1990 STF-3A files. The boundary line coordinates of the Block Groups were extracted from the Census Bureau's 1990 TIGER/Line Files.

CENTRACTS reports are created with programs written by Frost Associates, 88 Founders Village, Clinton Conn 06413. The code was written using Microsoft's Quick-Basic Ver. 4.5.

Latitude and Longitude coordinates identifying a site are entered in degrees and decimal degrees. One or more county files holding Block Group boundary lines are selected for use by CENTRACTS by determining whether the site coordinates fall within the minimum and maximum Lat\Lon coordinates of each county in the state.

Each Block Group line segment has Lat\Lon coordinates representing the "From" and "To" ends of that line. All coordinates from the selected county files are read and converted from degrees, decimal degrees to X\Y miles from the site location. Each line segment is then examined whether it lies within or partially within the maximum ring from the site.

The unique Block Group ID numbers of each line segment that lie within the maximum ring are retained. All Block Group boundary lines matching the Block Group numbers are then extracted from the respective county files to obtain all sides of the included Block Groups. Boundary records are then sorted in adjacent side order to determine the shape and area of each Block Group polygon.

A method to solve for the area of a polygon is to take one-half the sum of the products obtained by multiplying each X-coordinate by the difference between the adjacent Y-coordinates. For a polygon with coordinates at adjacent angles A, B, C, D, and

Ref. No. 15 p. 1

E. The formula can be expressed:

Area = 1/2{Xa(Ye-Yb)+ Xb(Ya-Yb)+ Xc(Yb-Yd)+ Xd(Yc-Ye)+ Xe(Yd-Ya)}

For each ring, the selected Block Groups will be inside, outside, or intersected by the ring. When a polygon is intersected, the partial Block Group area within that ring is calculated using the method described below.

When a ring intersects a Block Group, the intersect points are solved and plotted at the points where the ring enters and exits the shape. The chord line, a line within the circle connecting the intersect points is determined. This chord line is used to calculate the segment area, the half moon shape between the chord line and the ring, and the sub-polygon created by the chord line and the Block Group boundaries that lie outside the ring.

The segment area is subtracted from the sub-polygon area to determine the area of the sub-polygon outside the ring. The area outside the ring is then subtracted from the area of the entire polygon to arrive at the inside area. This inside area is then divided by the tract's total area to determine the percentage of area within the ring. This process is repeated for each block group that is intersected by one of the rings. The total area, partial area, and percentage of partial area of those block groups within, or partially within a ring, are held in memory for the report.

On occasion, the algorithm described above is unable to determine the area of the partial area. Within the report program is a "Paint" routine which allows an enclosed shape to be highlighted. Another routine calculates the percentage of highlighted screen pixels to the pixels within the polygon. A manual entry is allowed. Both the "paint" method and manual entry method over ride the calculated method.

CENTRACTS lists, starting on page 4, all Block Groups in State, County, Census Tract, and Block Group ID order that lie within, or partially within, the maximum ring. Each Block Group is identified by a City or Town name and by the Block Group's State, County, Tract and Block Group ID number. Following is the Block Group's 1990 populu tion and house count extracted from the Census Bureau's 1990 STF-1A files.

The next four columns display water source data from the 1990 STF-3A files. The first column is "Units with Public system or private company source of water", followed by "Units with individual well, Drilled, source of water"; "Units with individual well, Dug, source of water" and "Units with Other source of water".

For each ring, CENTRACTS then shows the Block Groups that are within that ring, the Block Group's total area in square miles, the partial area of the Block Group within that ring, and the partial percentage within the ring. The areas of the included Block Group and the partial areas are then totaled.

The last section tallies the demographic data within each ring. The percentage of area for each Block Group is multiplied times the census data for that Block Group and totaled for all Block Group's within the ring. Ring totals are then determined by subtracting the three mile data from the four mile, the two mile from the three mile, one from the two, etc... Population on private wells is calculated using the formula: ((Drilled + Dug Wells) / Households) * Population

Ref. No. 15p.2

```
==================  Site Data  =================

                    Population: 113320.88
                    Households:  43584.34
                 Drilled Wells:     74.98
                     Dug Wells:      6.44
           Other Water Sources:     17.00


============ Partial (RING) data ===============

 ---- Within Ring: 4 Mile(s) and 3 Mile(s) ----

                    Population:  61417.73
                    Households:  23992.11
                 Drilled Wells:     72.85
                     Dug Wells:      0.44
           Other Water Sources:     11.74

 ** Population On Private Wells:    187.61


 ---- Within Ring: 3 Mile(s) and 2 Mile(s) ----

                    Population:  21271.81
                    Households:   8401.73
                 Drilled Wells:      1.99
                     Dug Wells:      0.00
           Other Water Sources:      1.26

 ** Population On Private Wells:      5.03


 ---- Within Ring: 2 Mile(s) and 1 Mile(s) ----

                    Population:  23018.61
                    Households:   8298.56
                 Drilled Wells:      0.14
                     Dug Wells:      2.25
           Other Water Sources:      0.00

 ** Population On Private Wells:      6.63


 ---- Within Ring: 1 Mile(s) and .5 Mile(s) ----

                    Population:   6020.41
                    Households:   2230.60
                 Drilled Wells:      0.00
                     Dug Wells:      2.61
           Other Water Sources:      3.82

 ** Population On Private Wells:      7.04
```


Ref. No. 16p. 3

---- Within Ring: .5 Mile(s) and .25 Mile(s) ----

Population:	1376.74 ←
Households:	567.13
Drilled Wells:	0.00
Dug Wells:	0.92
Other Water Sources:	0.18
** Population On Private Wells:	2.24

---- Within Ring: .25 Mile(s) and 0 Mile(s) ----

Population:	215.57 ←
Households:	94.21
Drilled Wells:	0.00
Dug Wells:	0.22
Other Water Sources:	0.00
** Population On Private Wells:	0.50

Ref. No. 16p.4

REFERENCE NO. 16

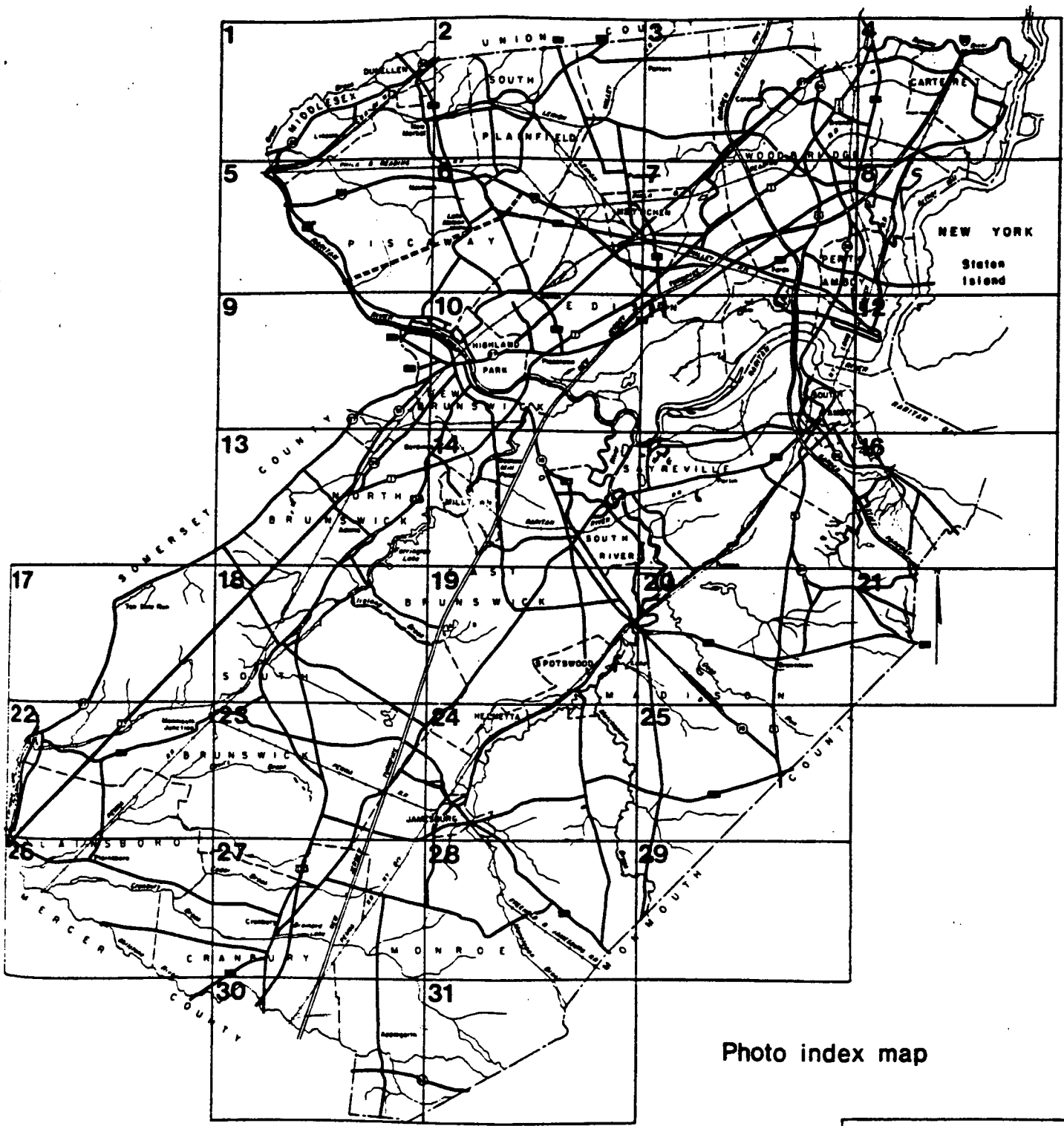


Photo index map

MIDDLESEX COUNTY
NEW JERSEY

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

USDA SCS HYATTSVILLE MD 1978

Ref. No. 16 p. 1

WOODBRIDGE AVE
RARITAN ARSENAL
RARITAN RIVER
GARDEN STATE PARKWAY
Joins Sheet 12
Site
MIDDLESEX COUNTY, NEW JERSEY
Ref. No. 16 P. 2

New Jersey
Date: 4/9/75
MLRA: 149

Series: Urban land
Symbol: UL

SOIL PROPERTIES AND SOIL SURVEY INTERPRETATIONS
Advance Copy - Subject to change

Prepared by Soil Conservation Service, USDA in
Cooperation with Rutgers University

This map unit is composed of areas that are more than 80 percent buildings or paved parking lots. The areas are either in the most urban parts of the larger cities or the large newer shopping centers. In many areas the original soil has been removed. Minimum size mapped is about 20 acres. Normal interpretations are not made.

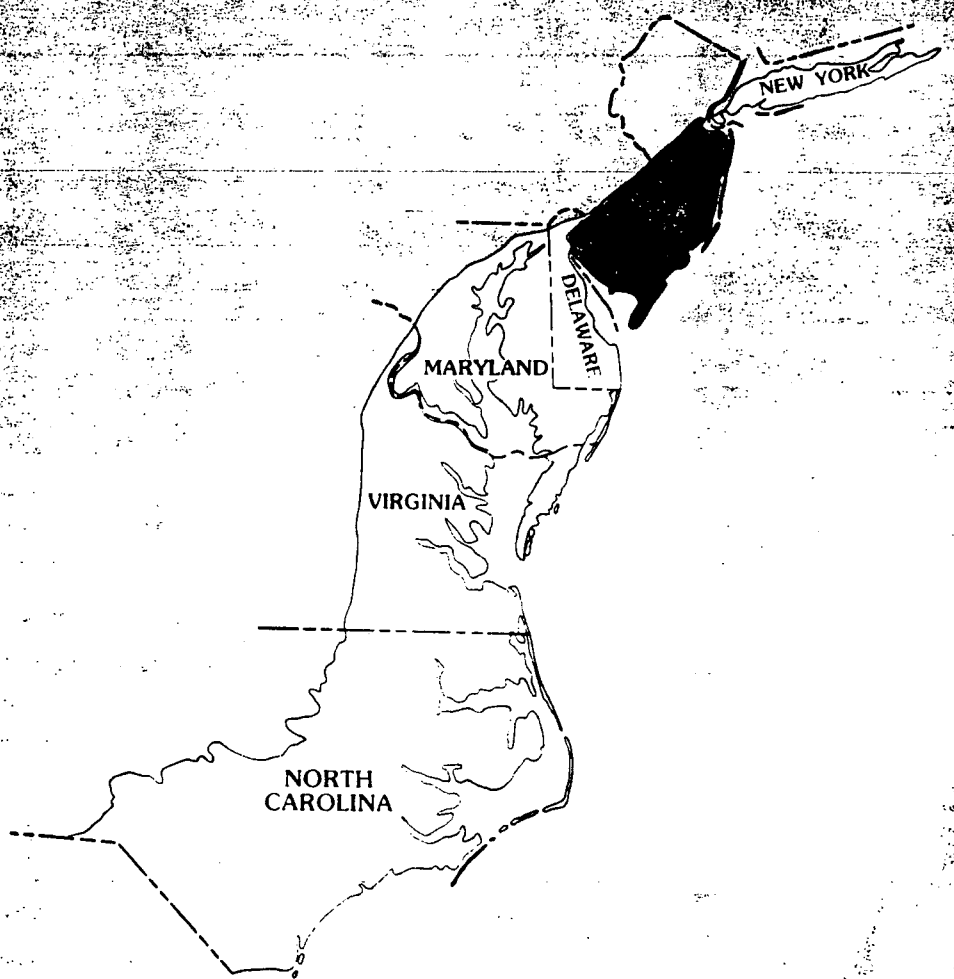
Ref. N016p.3

Soil Series and Map Symbol	Foundations for Dwellings		al
	With Basements	Without Basements	
Sassafras: Sandy loam, 9413 - A, B, C Loam, 9911 - A, B, C	Slight	Moderate: frost action potential moderate	Sl
Gravelly sandy loam, 941W - A, B, C	Slight	Moderate: frost action potential moderate	Sl
Sandy loam, 9413 - D Gravelly sandy loam, 941W - D	Moderate: slope limitation	Moderate: slope limitation; frost action potential moderate	Mo l
Sassafras - Urban land complex: 941U - B	Slight	Moderate: frost action potential moderate	Sl
941U - D	Moderate: slope limitation	Moderate: slope limitation; frost action potential moderate	Mo l
Tidal Marsh: C85	Severe: subject to tidal flooding twice daily	Severe: subject to tidal flooding twice daily	Se t t
Urban Land: UL	----------	----------	---
Woodstown: Sandy loam, 9423 - A, B Loam, 9921 - A, B	Moderate: seasonal water table at $1\frac{1}{2}$ to 4 feet	Severe: high frost action potential	Mo h a r

Ref. No160.4

REFERENCE NO. 17

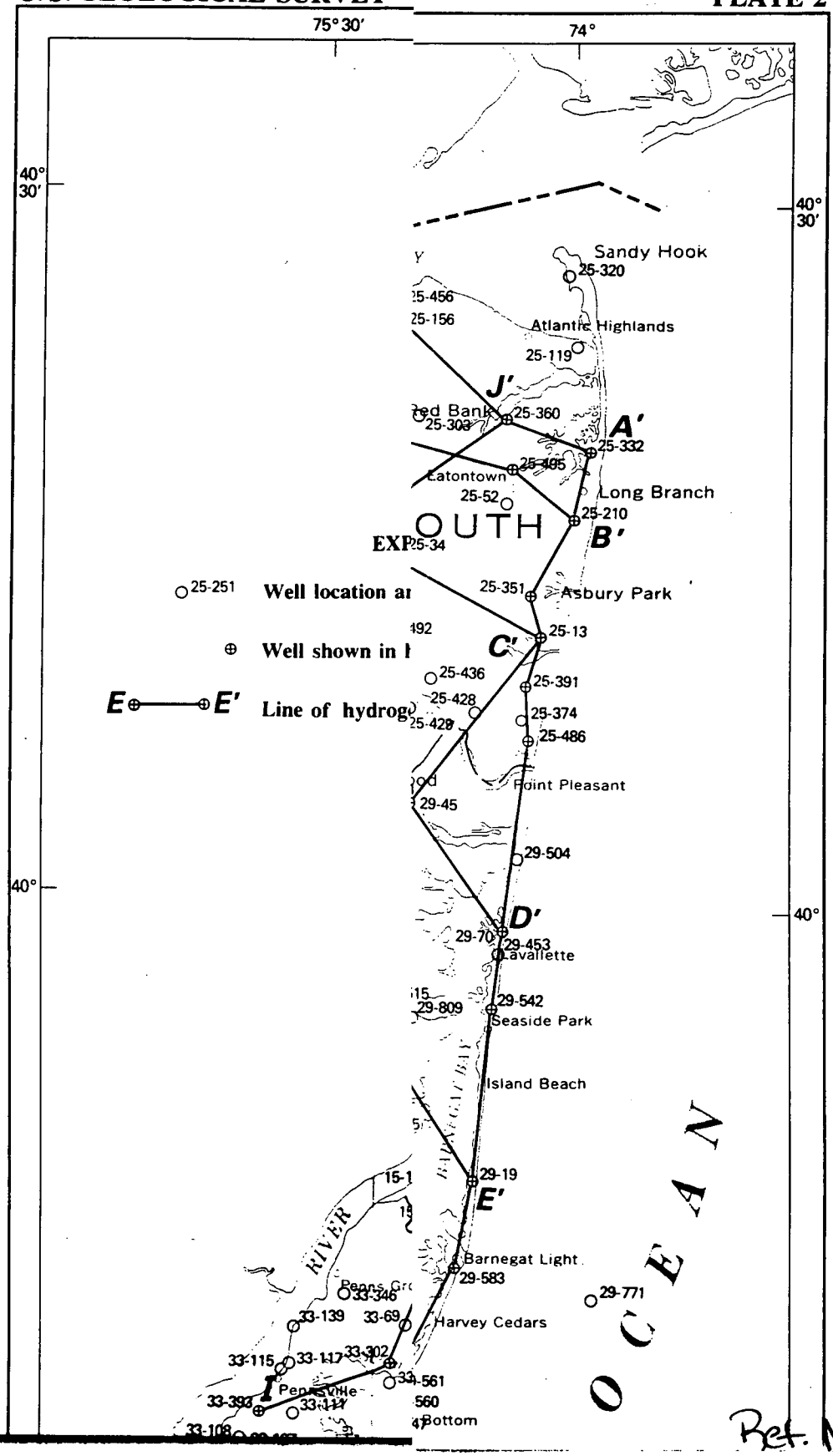
HYDROGEOLOGIC FRAMEWORK OF THE NEW JERSEY COASTAL PLAIN



U.S. GEOLOGICAL SURVEY PROFESSIONAL PAPER 1404-B

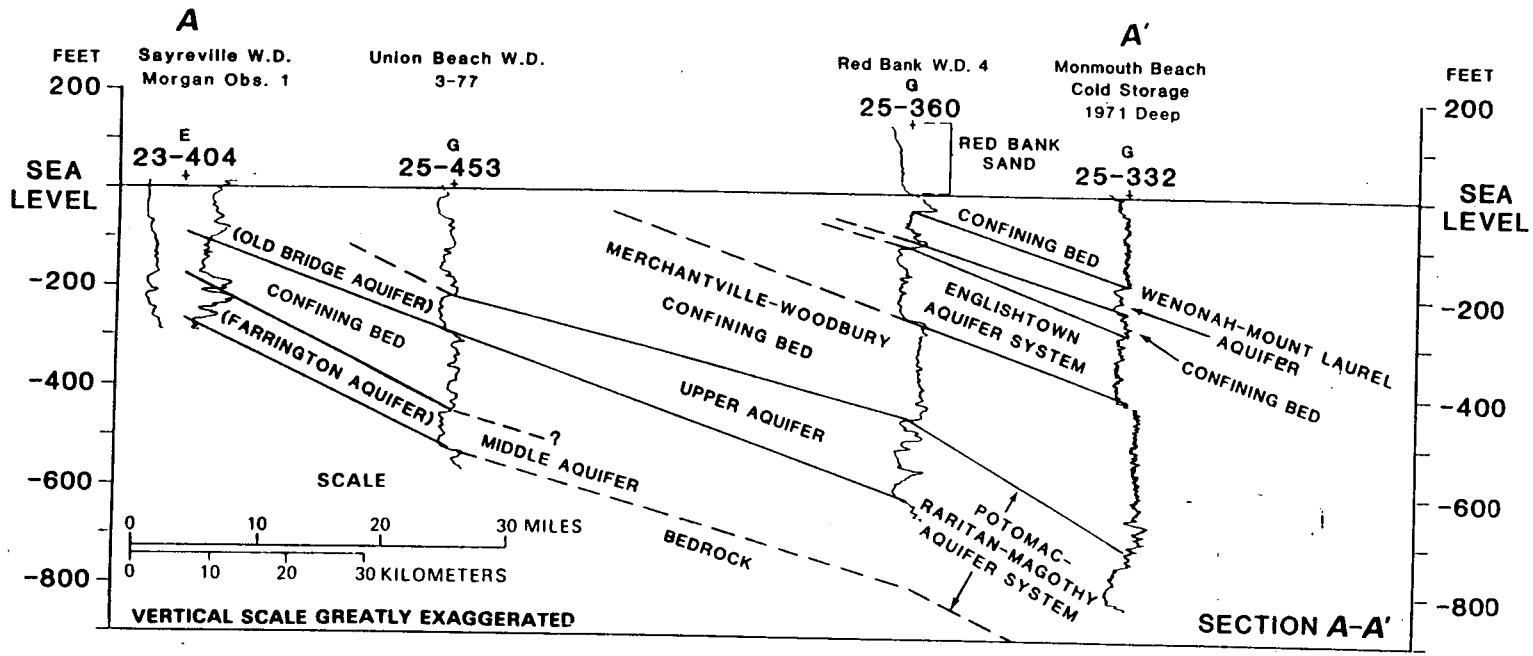
Ref. No. 17p. 1

DEPARTMENT OF THE INTE PROFESSIONAL PAPER 1404-B
U.S. GEOLOGICAL SURVEY PLATE 2



Ref. No. Пр. 2

DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY



Ref. No. 17 p. 3

REFERENCE NO. 18

GJ

FINAL ECRA SOILS CLEANUP REPORT

ESSEX SPECIALTY PRODUCTS, INC.
ONE CROSSMAN ROAD SOUTH
SAYREVILLE, NEW JERSEY
ECRA CASE NO. 88904

Prepared for:

ESSEX SPECIALTY PRODUCTS, INC.
1135 Broad Street
Clifton, New Jersey 07015

Prepared by:

WOODWARD-CLYDE CONSULTANTS
201 Willowbrook Boulevard
Wayne, New Jersey 07470

July 1992
90X4293B

Ref. No: 18 p 1

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	2.2 SUBSURFACE CONDITIONS	2-1
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5. Post-Excavation Sample Locations: Subarea D
6. Post-Excavation Sample Locations: Additional Excavation Areas
7. Phase I Oil/Water Separator Soil Sample Locations
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9. Phase III Oil/Water Separator Soil Sample Locations

4

LIST OF APPENDICES

A Pre-Excavation and Stream Sediment Sampling Results

B Requested Analytical Deliverables

C Wetlands General Permit and Soil Erosion and Sediment Control Plan

D Waste Manifests

E Certifications and Signatories

1.0 INTRODUCTION

Pursuant to NJAC 7:26B-5.7, this final cleanup report is submitted as part of an ongoing Environmental Cleanup Responsibility Act (ECRA) program (case no. 88904) for the Essex Specialty Products, Inc. (ESP) facility located at 1 Crossman Road South in Sayreville, New Jersey (Figure 1). The ECRA program is proceeding under the review of the New Jersey Department of Environmental Protection and Energy (NJDEPE) ECRA Cleanup Oversight section. The NJDEPE ECRA Cleanup Plan approval letter was issued on September 20, 1990, and included approval for soil remedial activities at the site.

This report presents the findings of the Cleanup Plan implementation as they relate to soil issues. Based upon discussions conducted between Ms. Grace Jacob (Case Manager, NJDEPE), Ms. Christine Lacy (Technical Coordinator, NJDEPE), and Mr. Robert Gaibrois (Project Manager, WCC), a report responding to the groundwater issues discussed in NJDEPE's letter dated May 18, 1992 will be submitted to NJDEPE on August 1, 1992.

Implementation of the approved Cleanup Plan commenced in January, 1991 and activities related to soil issues terminated in March, 1992. This report presents the results generated for the implementation of the Cleanup Plan, as well as results obtained by the previous consultant (Environmental Resources Management).

2.0 ENVIRONMENTAL SETTING

2.1 Site History and Description

The facility is located in Sayreville Borough, New Jersey. The property is identified as Lot 2 of Block 251 on the Sayreville tax map. The facility site is located in the north-central portion of the South Amboy, New Jersey Quadrangle of the U.S.G.S. 7.5 minute series topographic map (photo revised 1981). The location of the facility is shown on Figure 1.

The facility encompasses approximately 18 acres of land and includes an existing office/manufacturing building. The majority of the plant site is paved with asphalt or reinforced concrete. A small percentage of the property is landscaped. These landscaped areas are located to the north of the office/manufacturing building, and west and east of the parking lot.

A former chemical plant (Stayflex Chemical) borders the facility to the west, a steel plant (New Jersey Steel Company) to the northwest, a small retail shopping center to the north and undisturbed wooded areas to the east and south.

The facility site was unused woods and brush prior to 1965. There is no evidence of this site having any previous commercial or industrial uses prior to 1965.

2.2 Subsurface Conditions

The site is underlain by three distinct lithologic units. The uppermost unit consists of a medium to fine sand which varies in thickness for approximately 5 feet to 25 feet. The second unit consists of a thin layer (1-3 inches) of dense clay. The lowermost unit consists of silt, fine sand, and medium sand. A generalized cross-section of the site was provided in the August 1991 modified ECRA Groundwater Cleanup Plan. All of the excavation activities took place within the uppermost layer.

3.0 SCOPE OF WORK AND FINDINGS

3.1 Introduction

This remediation activities summary discusses the completed work-to-date associated with the soil remedial activities in the following areas:

- Sewer Drain Nos. 5 and 11;
- Excavation Area; and,
- Oil/Water Separator
- Pavement Area

All information included within this final report has already been submitted to the NJDEPE in the form of monthly progress reports, in accordance with the requirements of the ECRA Cleanup Plan dated August 13, 1990. As per the telephone conversation between Grace Jacob, the NJDEPE ECRA Cleanup Oversight Case Manager and Peter Reynolds of WCC on July 7, 1992, the resubmittal of the Tier II analytical deliverables is not required as they were previously submitted with the monthly progress reports.

This report compares the analytical results reported for all soil samples with the February 3, 1992 NJDEPE proposed cleanup standards as stipulated in the NJDEPE letter dated May 18, 1992.

Environmental Resources Management, Incorporated (ERM) performed the pre-excavation sampling and stream sediment sampling. The ERM sampling location figures and analytical result summary tables are provided in Appendix A. A description of the stream sediment sampling effort is also provided in Appendix A.

3.2 Sewer Drain Nos. 5 and 11

On January 30, 1991, soil samples were collected 12 inches to 18 inches beneath the base of Sewer Drain Nos. 5 and 11 at the Sayreville facility in accordance with the September 20, 1990 NJDEPE ECRA Cleanup Plan Approval letter. A 3-inch diameter concrete core drill was used by Direct Environmental, Inc. (Direct) to advance a hole to the required depth. A decontaminated bucket auger was then used to collect the soil samples. Samples were transferred to laboratory cleaned glass jars with decontaminated stainless steel spoons. Samples were analyzed by Nytest Environmental, Inc., a New Jersey certified analytical laboratory, and data validation was performed by WCC. The analytical results are summarized in Table 1.

In accordance with the September 20, 1990 NJDEPE ECRA Cleanup Plan Approval letter, if the analyses from the sewer drain sampling indicate levels above the applicable cleanup levels, ESP would excavate below the sewer drain and collect post-excavation samples accordingly. Therefore, excavation below the sewer drain was required.

On May 22, 1991 Sewer Drain Nos. 5 and 11 were excavated and nine post-excavation samples were collected from each of the two excavations (Figure 2). Based on the results of analytical testing performed on post-excavation samples (Table 1), no additional soil removal was required in the Sewer Drain No. 11 excavation. However, due to one sidewall sample (SD5-6) in the Sewer Drain No. 5 excavation having contaminant concentrations above the proposed NJDEPE cleanup standards (57,200 ppb total petroleum hydrocarbons), additional soil was excavated from this location on June 28, 1991 and two post-excavation samples were collected. (Figure 3). The results of post-excavation samples SD5-11 and SD5-12, collected beyond the additional excavation indicated contaminant concentrations below the proposed NJDEPE cleanup standards (Table 2). Based upon NJDEPE approval, the excavations were backfilled, and no further action is required in these areas.

The base neutral organic compound initial and continuing calibration summary sheets for samples SD5-2 through 10 and SD11-2 through 10 from the May 22 soil sampling event, as requested by the NJDEPE letter dated May 18, 1992, have been included in Appendix B.

3.3 Original Excavation Area

On February 27, 1991, mobilization activities commenced at the Sayreville facility for the ECRA cleanup of the original excavation area. Trees and underbrush were removed, where appropriate, within the area to be excavated in accordance with the approved Wetlands General Permit (Appendix C). Soil erosion control measures were taken (i.e., installation of silt fences and hay bales) in accordance with the approved Soil Erosion and Sediment Control Plan (Appendix C).

Between March 12 and March 19, 1991, soil excavation activities associated with the remediation of the original excavation were completed in accordance with the September 20, 1990 NJDEPE ECRA Cleanup Approval letter (Figure 4). Within that time period, the following subareas were excavated:

Area 1 Subarea	Depth of Excavation (ft)	Excavation Date
A	Sump Installation	March 13, 1991
B-1	5	March 18 and 19, 1991
B-2	1	March 12 and 13, 1991
B-3	2	March 14 and 18, 1991
D	0.5	March 19, 1991

Subarea A was excavated to facilitate the installation of a sump as part of a seep remediation program and post-excavation samples were not required. Post-excavation soil samples were collected from Subareas B-1, B-2, B-3 and D and analyzed. Subarea C, located within subarea B-3, was not treated as a separate subarea because of the minimal size. Instead, it was included with the B-3 excavation.

Mr. William Hadsell, Jr., NJDEPE Case Manager for this ECRA program, stated in a telephone conversation to WCC that post-excavation soil samples were to be collected at the base of the excavation within Area 1 even though the vertical limit of excavation is at or slightly below the groundwater table.

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Post-excavation samples were collected from subareas B-1, B-2, B-3, and D during March 13, 1991 through March 19, 1991 (Figures 4 and 5). The contaminant concentrations in samples collected from subarea D, (D-1 through D-5) were below the proposed NJDEPE cleanup standards (Table 3). Therefore, no further action was required in subarea D.

However, phthalate concentrations in samples B2-1 and B2-2 located along the eastern edge of subareas B-1 and B-2, exceeded the proposed NJDEPE cleanup standards. As a result, additional excavation activities were conducted in the area east of subareas B-1 and B-2. This excavation commenced on April 18, 1992 and was completed on May 14, 1992 (Figure 6). Analytical results of samples identified as AE-1 through AE-36 indicated that no further action was required in subareas B-1 and B-2 (Table 4).

Post-excavation soil samples identified as B3-1 through B3-15 indicated that no further action was required in subarea B-3 (Table 3). However, during excavation activities near subarea B-3, an abandoned 12-inch diameter pipe was observed. Approximately 50 feet of the pipe was removed and the end properly capped.

Additional excavation activities were conducted in the area where the abandoned pipe was discovered, partially removed, and capped. This excavation was based on visual identification of a black oily product at the base of the excavation where the abandoned pipe was removed. The excavation was conducted between April 15 and April 17, 1991 (Figure 6). Based on post-excavation soil sample analytical data, summarized in Table 5 (AP-1 through AP-16), additional excavation activities were necessary and continued in this area on April 29, 1991 and May 1, 1991. Post-excavation soil samples were collected at the base and sidewalls of the excavation (Figure 6). Analytical results, summarized in Table 4 (AP-17 through AP-24), indicate that no additional excavation is required in this area. The excavation was terminated at the depth of the groundwater table approximately 5 ft to 7 ft below the ground surface.

3.4 Oil/Water Separator

On April 23, 1991, a trench was excavated adjacent to the existing underground oil/water separator to determine the extent of a free product layer observed above the

groundwater table (Figure 7). Based on the analytical results (Table 4) from post-excavation samples (OW-1 through OW-6) collected at the sidewalls and base of the trench, additional excavation activities were required in this area.

On August 8, 1991, additional post excavation samples, identified as OW-7 through OW-17 were collected from the oil/water separator area (Figure 7). Analytical results, summarized in Table 6, indicated the presence of elevated levels of base neutral compounds and additional excavation activities would be necessary.

On September 19, 1991 and October 2, 1991, additional excavation activities were conducted adjacent to the former location of the oil/water separator (Figure 8). Post-excavation soil sample results, summarized in Table 7, indicated the presence of elevated levels of base neutral compounds and additional excavation activities would be necessary.

On October 30, 1991, additional investigations were conducted (Figure 9). Based upon the analytical results, summarized in Table 7, and the proximity of the building foundation, no further excavation activities were implemented at this location.

3.5 Pavement Area

On July 31, 1991, soil samples, identified as T-1 through T-4, were collected from test borings in the pavement area near the main excavation. These test borings were drilled because an organic odor was observed during the original excavation activities. Results of analytical testing performed on soil samples collected from these test borings indicate benzene, toluene, xylene (BTX) and base/neutral extractables plus a forward library search (BN+15) concentrations below the proposed NJDEPE cleanup standards. Therefore, no further action is required in this area.

3.6 Waste Disposal

All waste manifests generated as a result of the soil excavation and disposal from the ESP site are provided in Appendix D. Completed Waste Disposal Summary forms are provided in Appendix D. All available waste classification analytical results are also provided in Appendix D.

4.0 CLEANUP COSTS

Final cleanup costs versus estimated costs are summarized in Table 8. Actual total costs of approximately $2,600,000 were incurred compared to estimated costs of $550,000. The primary reasons for the increase were the direct cleanup costs, analytical costs and the sampling/engineering/inspection costs associated with work beyond the scope of the original Cleanup Plan. The direct cleanup costs increased primarily because the actual amount of soil removed from the site was approximately 3 times the planned amount of soil to be removed. Also, the oil-water separator was removed to excavate the surrounding contaminated soil and a temporary oil-water separator was installed to control runoff from the paved area. Analytical and sampling/engineering/inspection costs increased due to increased post-excavation soil sampling, site supervision and the additional soil boring activity in the paved area.

5.0 SUMMARY

During the implementation of the approved Cleanup Plan, approximately 175 soil samples were collected. These samples defined the vertical and horizontal extent of contamination, with the exception of seven soil samples (B1-2, B1-7, B1-8, B1-10, AP-11, Ap-12, and OW-19).

These samples, except OW-19, were located at the base of the excavation. Additional excavation activities were not implemented because of the presence of groundwater. Therefore, the vertical extent of the excavation was considered to be groundwater in these areas.

Additional excavation activities were not implemented near sample OW-19 because of the proximity of the building and further excavation would undermine the building foundation.

As a result of Cleanup Plan implementation, approximately 3,500 tons of contaminated soil were excavated and disposed.

6.0 CONCLUSIONS

Based upon the analytical results of all post-excavation soil samples, no further excavation and soil sampling is proposed. Although several soil samples reported levels of contamination above the proposed NJDEPE cleanup standards, the relative locations of the samples warrant no further action as summarized in Section 5.0.

Based upon the information presented in this report, backfilling the excavation and restoration of the wetlands area is proposed. In addition, and as described in the June 1992 monthly progress report, a summary report on the groundwater issues will be submitted to the NJDEPE on August 1, 1992. Upon completion of these activities, the revised cleanup costs will be provided to the NJDEPE for review.

7.0 LIMITATIONS

WCC's work is in accordance with our understanding of professional practice and environmental standards existing at the time the work was performed. Professional judgments presented are based on our evaluation of technical information gathered and our understanding of site conditions and site history. Our analyses, interpretations and judgments are rendered and consistent with the professional standard of care and skill ordinarily exercised by the consulting community and reflect the degree of conservatism WCC deems proper for this project at this time.

Part of the information used in this report includes soil analyses. We have endeavored to collect samples which are representative of site conditions. However, the samples collected only represent a portion of the subsurface conditions. It is assumed that these samples are representative of the general site conditions.

This report also contains data generated by the previous consultant (ERM). WCC has not validated ERM's sample analyses, and, as such, can not independently verify the accuracy of the results. WCC assumes that ERM adhered to all appropriate NJDEPE sampling and analytical QA/QC protocol.

8.0 CERTIFICATION AND SIGNATORIES

Pursuant to N.J.A.C. 7:26-1.13 the two part certification and signatories are provided in Appendix E.

TABLE 1
ESSEX SPECIALTY PRODUCTS, INC.
SAYREVILLE, NEW JERSEY
SEWER DRAINS NOS. 5 AND 11
PRE- AND POST-EXCAVATION SOIL SAMPLING
ANALYTICAL RESULTS SUMMARY

	NJDEP ECRA Proposed Cleanup Standards (1) (ppm)	Sample ID	52291FB	SD5-2	SD5-3	SD5-4	SD5-5	SD5-6	SD5-7	SD5-8
		Sample Date	5/22/91	5/22/91	5/22/91	5/22/91	5/22/91	5/22/91	5/22/91	5/22/91
		Sampling Depth	-	0 - 6"	0 - 6"	0 - 6"	0 - 6"	0 - 6"	0 - 6"	0 - 6"
		Location	-	sidewall	base	sidewall	base	sidewall	base	sidewall
		Matrix	aqueous	soil	soil	soil	soil	soil	soil	soil
		Units	mg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/L
TOTAL PETROLEUM HYDROCARBONS	Not Specified by NJDEPE		<0.2	154	210	186	169	57200	356	208
Base Neutral Compounds (Total)			ND	4 420	3 1	0.7	0 33	65.70	14 87	4 000
Phthalates										
Diethylphthalate	--			0 120 J						
Di-n-Butylphthalate	100		0 003B	4 300	3 100	0 70J	0 33J	0 530J	0 25J	2 200
bis(2-Ethylhexyl)Phthalate	83		0.045B	1 2 B	320B	1 0 B	2 6B	240B	14B	1 800
Di-n-Octyl Phthalate	100							61 0	14 0	
Polynuclear Aromatic Hydrocarbons										
Naphthalene	100							0 60J		
Fluorene	100							0 33J	0 014J	
Phenanthrene	--							1 3J	0.18J	
Anthracene	500							0.18J	0 022J	
Fluoranthene	500							0 26J	0 25J	
Pyrene	500							1 5J	0 15J	
Tentatively Identified Compounds										
Unknowns	--		0.002JB	.19JA - 48JBA	0 23JB - 67JBA	0 230 J - 63JBA	0.27J - 35JAB	4 4J - 67JAB	0 36J - 55JBA	0 18JB-50JBA
Unknown Alkanes	--			87JB	0 22J - 0 66JB	0 410JB	0 50JB	4 3J - 8 9J	0 21J - 2 9J	0 82JB
Unknown Alkenes	--			.21J						
Unknown Acids	--			8J	230J	0 930J	0 89J			0 25J
Unknown Hydrocarbons	--					0.180J				0 18J
Sulfur	--					0.360J				0 110J
Unknown Aldehyde	--									
Unknown Ketones	--									
Unknown Phthalates	--							9 9J - 20J		
Unknown Cyclics and/or Aromatics	--							3 1J - 6 2J	0 21J - 0 89J	

Prepared by PP
Checked by BRK
[illegible]

A = Compound is an aldol condensate
B = Compound reported was present in the method blank
J = Quantitation value is an estimate
(1) = NJDEPE Proposed Soil Cleanup Standards (February 1992)

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TABLE 1 (CONTINUED)
ESSEX SPECIALTY PRODUCTS, INC.
SAYREVILLE, NEW JERSEY
SEWER DRAINS NOS. 5 AND 11
PRE- AND POST-EXCAVATION SOIL SAMPLING
ANALYTICAL RESULTS SUMMARY

	NJDEP ECRA Proposed Cleanup Standards (1) (ppm)	Sample ID	SD5-9	SD5-10	SD11-2	SD11-3	SD11-4	SD11-5	SD11-6	SD11-7
		Sample Date	5/22/91	5/22/91	5/22/91	5/22/91	5/22/91	5/22/91	5/22/91	5/22/91
		Sampling Depth	0 - 6"	0 - 6"	0 - 6"	0 - 6"	0 - 6"	0 - 6"	0 - 6"	0 - 6"
		Location	base	base	sidewall	base	sidewall	base	sidewall	base
		Matrix	soil	soil	soil	soil	soil	soil	soil	soil
		Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TOTAL PETROLEUM HYDROCARBONS	Not Specified by NJDEPE		193	608	201	222	1120	183	335	271
Base Neutral Compounds (Total)			0.210	0.733	0.195	ND	1.100	ND	ND	ND
Phthalates										
Diethylphthalate	–				0.180J		1.1			
Di-n-Butylphthalate	100		0.210 J	0.310 J	1.8B		0.30B	0.43B	2.5B	2.1B
bis(2-Ethylhexyl)Phthalate	83		3.2B	4.2B	2.5B	0.36JB	[illegible]	0.67B	1.4B	1.3B
Di-n-Octyl Phthalate	100			0.330J	0.015J					
Polynuclear Aromatic Hydrocarbons										
Naphthalene	100									
Fluorene	100									
Phenanthrene	–			0.027J						
Anthracene	500									
Fluoranthene	500									
Pyrene	500			0.065J						
Tentatively Identified Compounds										
Unknowns	–		0.076J-56JBA	0.27J-55JAB	0.20J - 55JAB	0.38J - 65JAB	0.40JB-150JAB	0.17J-80JAB	0.4J-87JAB	0.26J-82JAB
Unknown Alkanes	–		0.25 J3 - 0.75 J	0.18J-0.38J	0.36J - 0.63J	0.83JB-0.94JB	0.38J-1.5JB	1.3J-1.5J	0.74J-0.91J	0.99J-1.2JB
Unknown Alkenes	–				1.6J - 1.8J		1.4J-3.8J	0.21J	0.55J-7.1J	0.18JB
Unknown Acids	–							0.19J	0.93J	0.40J
Unknown Hydrocarbons	–									
Sulfur	–								0.47J	600J
Unknown Aldehyde	–								1.0J	
Unknown Ketones	–					0.210J	0.72J	.28J		0.20J
Unknown Phthalates	–			0.890J						
Unknown Cyclics and/or Aromatics	–			0.650J	0.32J-0.92J					

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Checked by DPK
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A = Compound is an aldol condensate
B = Compound reported was present in the method blank
J = Quantitation value is an estimate
(1) = NJDEPE Proposed Soil Cleanup Standards (February 1992)

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TABLE 1 (CONTINUED)
ESSEX SPECIALTY PRODUCTS, INC.
SAYREVILLE, NEW JERSEY
SEWER DRAINS NOS. 5 AND 11
PRE- AND POST-EXCAVATION SOIL SAMPLING
ANALYTICAL RESULTS SUMMARY

	NJDEP ECRA Proposed Cleanup Standards (1) (ppm)	Sample ID:	SD11-8	SD11-9	SD11-10	SD11-1	SD11-D	SD5-1
		Sample Date:	5/22/91	5/22/91	5/22/91	1/30/91	1/30/91	1/30/91
		Sampling Depth:	0 - 6"	0 - 6"	0 - 6"	12 - 18"	12 - 18"	12 - 18"
		Location:	sidewall	base	base	base	base	base
		Matrix:	soil	soil	soil	soil	soil	soil
		Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TOTAL PETROLEUM HYDROCARBONS	Not Specified by NJDEPE		270	177	520	81.9	67.3	107
Base Neutral Compounds (Total)			ND	ND	ND	2500 000	1100 000	3000 000
Phthalates								
Diethylphthalate	--							
Di-n-Butylphthalate	100		0.54B	1.8B	1.1B	2500 000	1100 000	3000 000
bis(2-Ethylhexyl)Phthalate	83		2.9B	1.4B	1.1B			
Di-n-Octyl Phthalate	100							
Polynuclear Aromatic Hydrocarbons								
Naphthalene	100							
Fluorene	100							
Phenanthrene	--							
Anthracene	500							
Fluoranthene	500							
Pyrene	500							
Tentatively Identified Compounds								
Unknowns	--		0.43J-67JAB	0.22J-68JBA	0.19 J - 65JAB			
Unknown Alkanes	--		0.78J-5.3J	0.75J-0.91J	0.84J-1.1J			
Unknown Alkenes	--		0.58J-7.2J	0.28J	0.22J			
Unknown Acids	--		0.43J					
Unknown Hydrocarbons	--							
Sulfur	--			0.23J				
Unknown Aldehyde	--		0.71J					
Unknown Ketones	--				0.25J			
Unknown Phthalates	--							
Unknown Cyclics and/or Aromatics	--							

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A = Compound is an aldol condensate
B = Compound reported was present in the method blank
J = Quantitation value is an estimate
(1) = NJDEPE Proposed Soil Cleanup Standards (February 1992)

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TABLE 2
ESSEX SPECIALTY PRODUCTS, INC.
SAYREVILLE, NEW JERSEY
SEWER DRAIN NO. 5
ADDITIONAL EXCAVATION SOIL SAMPLING
ANALYTICAL RESULTS SUMMARY

	NJDEP ECRA Proposed Cleanup Standards (1) (ppm)	Sample ID:	FB6-28	SD5-11	SD5-12
		Sample Date:	6/28/91	6/28/91	6/28/91
		Sampling Depth:	-	0 - 6 "	0 - 6 "
		Location:	-	sidewall	sidewall
		Matrix:	aqueous	soil	soil
		Units:	mg/L	mg/kg	mg/kg
TOTAL PETROLEUM HYDROCARBONS	Not Specified by NJDEP		<0.2	2316	1566
Base Neutral Compounds (Total)			0.089	9.350	11.76
Phthalates					
Di-n-Butylphthalate	100		0.084	3.2 B	1.9 B
bis(2-Ethylhexyl)Phthalate	100		0.005 JB	5.5 B	9.6 B
Di-n-Octyl Phthalate				0.650 J	0.260 J
Others					
N-Nitrosodiphenylamine	100			0.048 JB	0.051 JB
Tentatively Identified Compounds					
Unknowns	--		0.007 J	0.330JA-95JAB	0.320JB-250JAB
Unknown Hydrocarbons	--			51.0 J	
Unknown Phthalate	--			1.20 J	
Unknown PCB	--			0.310J -2.50J	0.250J-2.50J

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Checked by DRK
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A = Compound is an aldol condensate
B = Compound reported was present in the method blank
J = Quantitation value is an estimate
(1) = NJDEPE Proposed Soil Cleanup Standards (February 1992)

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TABLE 2
ESSEX SPECIALTY PRODUCTS, INC.
SAYREVILLE, NEW JERSEY
SEWER DRAIN NO. 5
ADDITIONAL EXCAVATION SOIL SAMPLING
ANALYTICAL RESULTS SUMMARY

	NJDEP ECRA Proposed Cleanup Standards (1) (ppm)	Sample ID:	FB6-28	SD5-11	SD5-12
		Sample Date:	6/28/91	6/28/91	6/28/91
		Sampling Depth:	-	0 - 6 "	0 - 6 "
		Location:	-	sidewall	sidewall
		Matrix:	aqueous	soil	soil
		Units:	mg/L	mg/kg	mg/kg
TOTAL PETROLEUM HYDROCARBONS	Not Specified by NJDEP		<0.2	2316	1568
Base Neutral Compounds (Total)			0.089	9.350	11.76
Phthalates					
Di-n-Butylphthalate	100		0.084	3.2 B	1.9 B
bis(2-Ethylhexyl)Phthalate	100		0.005 JB	5.5 B	9.6 B
Di-n-Octyl Phthalate				0.650 J	0.260 J
Others					
N-Nitrosodiphenylamine	100			0.048 JB	0.051 JB
Tentatively Identified Compounds					
Unknowns	--		0.007 J	0.330JA-95JAB	0.320JB-250JAB
Unknown Hydrocarbons	--			51.0 J	
Unknown Phthalate	--			1.20 J	
Unknown PCB	--			0.310J -2.50J	0.250J-2.50J

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Checked by DRK
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A = Compound is an aldol condensate
B = Compound reported was present in the method blank
J = Quantitation value is an estimate
(1) = NJDEPE Proposed Soil Cleanup Standards (February 1992)

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TABLE 3
ESSEX SPECIALTY PRODUCTS, INC.
SAYREVILLE, NEW JERSEY
SUBAREAS B-1, B-2, B-3, AND D
POST EXCAVATION
SOIL SAMPLING ANALYTICAL RESULTS SUMMARY

		Sample ID:	FB 3-19	B1-1	B1-2	B1-3	B1-4	B1-5	B1-6	B1-7	B1-8	B1-9
		Sample Date:	3/19/91	3/19/91	3/19/91	3/19/91	3/19/91	3/19/91	3/19/91	3/19/91	3/19/91	3/19/91
		Sampling Depth	-	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"
		Trench Location	-	sidewall	base	sidewall	base	sidewall	base	sidewall	base	sidewall
		Matrix:	water	soil	soil	soil	soil	soil	soil	soil	soil	soil
		Units:	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
	NJDEP ECRA Proposed Cleanup Standards (1) PPM											
TOTAL PETROLEUM HYDROCARBONS	Not Specified by NJDEP		< 0.2	88.6	961	147	491	358	259	671	679	181
ORGANICS												
Volatile Organic Compounds (Total)			NR	NR	4.3078	NR	NR	NR	NR	0.234	7.374	NR
benzene	1				0.070					0.003	0.029	
toluene	503				0.008					0.001 J	0.045	
xylene (total)	10				4.3					0.230	7.350	
Base Neutral Compounds (Total)			0.006	NR	1814.18	NR	NR	NR	NR	690.7	962.75	NR
2 - methylnaphthalene	--				0.230 J					0.140 J	0.290 J	
dibenzofuran	--										0.079 J	
di-n-butyl phthalate	100		0.005 J		0.640 J					0.400 J	0.770 J	
bis (2-ethylhexyl) phthalate	83				1800 B					590 B	940 B	
di-n-octyl phthalate	100				13						21	
naphthalene	100				0.100 J						0.045 J	
acenaphthylene	--										0.039 J	
fluorene	100										0.110 J	
phenanthrene	--				0.210 J					0.190 J	0.210 J	
anthracene	500										0.077 J	
fluoranthene	500											
N-nitrosophenylamine	100										0.130 J	
pyrene	500											
Tentatively Identified Compounds												
unknowns	--				1.6J - 45J					1.1J - 10.0J	1.4J - 17.0J	
substituted benzene	--				1.6J						1.7 J	
substituted naphthalene	--									1.6 J		

J = Quantitation value is considered an estimate
B = Compound reported was present in the method blank
(1) = Proposed NJDEPE Soil Cleanup Standards (February 1992)

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TABLE 3 (CONTINUED)
ESSEX SPECIALTY PRODUCTS, INC.
SAYREVILLE, NEW JERSEY
SUBAREAS B-1, B-2, B-3, AND D
POST EXCAVATION
SOIL SAMPLING ANALYTICAL RESULTS SUMMARY

		Sample ID	B1-10	B1-11	B1-12	B1-13	B1-14	B1-15	B1-16	B1-17	B1-18
		Sample Date	3/19/91	3/19/91	3/19/91	3/19/91	3/19/91	3/19/91	3/19/91	3/19/91	3/19/91
		Sampling Depth	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"
		Trench Location	base	sidewall	base	sidewall	base	sidewall	base	sidewall	base
		Matrix:	soil	soil	soil	soil	soil	soil	soil	soil	soil
		Units:	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
	NJDEP ECRA Proposed Cleanup Standards (1) PPM										
TOTAL PETROLEUM HYDROCARBONS	Not Specified by NJDEP		740	265	127	79.9	78.9	135	167	135	406
ORGANICS											
Volatile Organic Compounds (Total)			5.95	NR	NR	NR	NR	NR	NR	NR	NR
benzene	1		0.038								
toluene	530		0.012								
xylene (total)	10		5.9								
Base Neutral Compounds (Total)			1100.97	NR	NR	NR	NR	NR	NR	NR	NR
2-methylnaphthalene	--		0.130 J								
coronene	--										
di-n-butyl phthalate	100		0.740 J								
bis (2-ethylhexyl) phthalate	83		1100 B								
di-n-octyl phthalate	100										
naphthalene	100										
acenaphthylene	--										
fluorene	100										
phenanthrene	--		0.130 J								
anthracene	500										
fluoranthene	500										
N-nitrosodiphenylamine	100										
pyrene	500										
Tentatively Identified Compounds											
unknown	--		1.2J - 11.0J								
substituted benzene	--		1.3J - 7.5J								
substituted naphthalene	--										

J = Quantitation value is considered an estimate
B = Compound reported was present in the method blank
(1) = Proposed NJDEPE Soil Cleanup Standards (February 1992)

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TABLE 3 (CONTINUED)
ESSEX SPECIALTY PRODUCTS, INC.
SAYREVILLE, NEW JERSEY
SUBAREAS B-1, B-2, B-3, AND D
POST EXCAVATION
SOIL SAMPLING ANALYTICAL RESULTS SUMMARY

		Sample ID	FB 3-13	FB 3-14	B2-1	B2-2	B2-3	B2-4	B2-5	B2-6	B2-7
		Sample Date	3/13/91	3/14/91	3/13/91	3/13/91	3/13/91	3/13/91	3/14/91	3/14/91	3/14/91
		Sampling Depth			0-6"	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"
		Trench Location			sidewall	base	sidewall	base	sidewall	base	sidewall
		Matrix	water	water	soil	soil	soil	soil	soil	soil	soil
		Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
	NJDEP ECRA Proposed Cleanup Standards (1) PPM										
TOTAL PETROLEUM HYDROCARBONS	Not Specified by NJDEP		<0.2	<0.2	1090	638	1040	924	188	155	137
ORGANICS											
Volatile Organic Compounds (Total)			ND	ND	ND	ND	ND	ND	NR	NR	NR
benzene	1										
toluene	500										
xylene (total)	10										
Base Neutral Compounds (Total)				0.020	1423.2	1108.749	27.198	19.7	NR	NR	NR
2-methylnaphthalene	--										
dibenzofuran	--										
di-n-butyl phthalate	100		0.008	0.009	1.20	4.50	8.00	9.80			
bis (2-ethylhexyl) phthalate	83		0.008 JB	0.011	1400	1100	17.0	9.90			
di-n-octyl phthalate	100				22.0	4.00	0.058				
naphthalene	100										
acenaphthylene	--										
fluorene	100										
phenanthrene	--					0.054J	0.500J				
anthracene	500										
fluoranthene	500					0.085J	0.920 J				
N-nitrosophenylamine	100										
pyrene	500						0.710 J				
Tentatively Identified Compounds											
unknowns	--				0.51J - 2.8J	0.68J - 6.7J	2.9J - 25.0J	1.5J - 9.5J			
substituted benzene	--				0.630 J	4.4 J	22.0J	3.1			
substituted naphthalene	--										

J = Quantitation value is considered an estimate
B = Compound reported was present in the method blank
(1) = Proposed NJDEPE Soil Cleanup Standards (February 1992)

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TABLE 3 (CONTINUED)
ESSEX SPECIALTY PRODUCTS, INC.
SAYREVILLE, NEW JERSEY
SUBAREAS B-1, B-2, B-3, AND D
POST EXCAVATION
SOIL SAMPLING ANALYTICAL RESULTS SUMMARY

	NJDEP ECRA Proposed Cleanup Standards (1) PPM	Sample ID	B2-8	B2-9	B2-10	B2-11	B2-12	B2-13	B2-14	B2-15	B2-16	B2-17
		Sample Date	3-14-91	3-14-91	3-14-91	3-14-91	3-14-91	3-14-91	3-14-91	3-14-91	3-14-91	3-14-91
		Sampling Depth	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"
		Trench Location	base	base	base	base	base	sidewall	base	sidewall	base	base
		Matrix	soil	soil	soil	soil	soil	soil	soil	soil	soil	soil
		Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
TOTAL PETROLEUM HYDROCARBONS	Not Specified by NJDEP		<100	418	181	201	131	139	163	619	110	244
ORGANICS:												
Volatile Organic Compounds (Total)												
benzene	1		NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
toluene	500											
xylene (total)	10											
Base Neutral Compounds (Total)												
2-methylnaphthalene	--		NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
dibenzofuran	--											
di-n-butyl phthalate	100											
bis (2-ethylhexyl) phthalate	83											
di-n-octyl phthalate	100											
naphthalene	100											
acenaphthylene	--											
fluorene	100											
phenanthrene	--											
anthracene	500											
fluoranthene	500											
N-nitrosophenylamine	100											
pyrene	500											
Tentatively Identified Compounds												
unknowns	--											
substituted benzene	--											
substituted naphthalene	--											

J = Quantitation value is considered an estimate
B = Compound reported was present in the method blank
(1) = Proposed NJDEPE Soil Cleanup Standards (February 1992)

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TABLE 3 (CONTINUED)
ESSEX SPECIALTY PRODUCTS, INC.
SAYREVILLE, NEW JERSEY
SUBARES B-1, B-2, B-3, AND D
POST EXCAVATION
SOIL SAMPLING ANALYTICAL RESULTS SUMMARY

		Sample ID	FB 3-18	B3-1	B3-2	B3-3	B3-4	B3-5	B3-6	B3-7	B3-8	B3-9	B3-10
		Sample Date	3.18.91	3.18.91	3.18.91	3.18.91	3.18.91	3.18.91	3.18.91	3.18.91	3.18.91	3.18.91	3.18.91
		Sampling Depth		0-6"	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"
		Trench Location		base	sidewall	base	base	base	sidewall	base	base	base	sidewall
		Matrix	water	soil	soil	soil	soil	soil	soil	soil	soil	soil	soil
		Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
	NJDEP ECRA Proposed Cleanup Standards (1) PPM												
TOTAL PETROLEUM HYDROCARBONS	Not Specified by NJDEP		<0.2	36.9	22.8	31	174	<10	39.9	24.9	51.4	140	214
ORGANICS													
Volatile Organic Compounds (Total)													
benzene	1			NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
toluene	500												
xylene (total)	10												
Base Neutral Compounds (Total)													
2 - methylnaphthalene	--		0.018	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
dibenzofuran	--												
di-n-butyl phthalate	100		0.005 J										
bis (2-ethylhexyl) phthalate	83		0.012 B										
di-n-octyl phthalate	100												
naphthalene	100												
acenaphthylene	--												
fluorene	100												
phenanthrene	--												
anthracene	500												
fluoranthene	500												
N-nitrosophenylamine	100												
pyrene	500												
Tentatively Identified Compounds													
unknowns	--		0.004 J										
substituted benzene	--												
substituted naphthalene	--												

J = Quantitation value is considered an estimate
B = Compound reported was present in the method blank
(1) = Proposed NJDEPE Soil Cleanup Standards (February 1992)

TABLE 3 (CONTINUED)
ESSEX SPECIALTY PRODUCTS, INC.
SAYREVILLE, NEW JERSEY
SUBAREAS B-1, B-2, B-3, AND D
POST EXCAVATION
SOIL SAMPLING ANALYTICAL RESULTS SUMMARY

		Sample ID	B3-11	B3-12	B3-13	B3-14	B3-15	D-1	D-2	D-3	D-4	D-5
		Sample Date	3/18/91	3/18/91	3/18/91	3/18/91	3/18/91	3/19/91	3/19/91	3/19/91	3/19/91	3/19/91
		Sampling Depth	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"
		Trench Location	base	sidewall	base	sidewall	base	base	sidewall	base	sidewall	base
		Matrix:	soil	soil	soil	soil	soil	soil	soil	soil	soil	soil
		Units:	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
	NJDEP ECRA											
	Proposed Cleanup Standards (1)											
	PPM											
TOTAL PETROLEUM HYDROCARBONS	Not Specified by NJDEP		430	314	62.9	115	109	50	66.5	67.4	67.6	120
ORGANICS:												
Volatile Organic Compounds (Total)			NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
benzene	1											
toluene	500											
xylene (total)	10											
Base Neutral Compounds (Total)			NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
2 - methylnaphthalene	--											
dibenzofuran	--											
di-n-butyl phthalate	100											
bis (2-ethylhexyl) phthalate	83											
di-n-octyl phthalate	100											
naphthalene	100											
acenaphthylene	--											
fluorene	100											
phenanthrene	--											
anthracene	500											
fluoranthene	500											
N-nitrosophenylamine	100											
pyrene	500											
Tentatively Identified Compounds												
unknowns	--											
substituted benzene	--											
substituted naphthalene	--											

J = Quantitation value is considered an estimate
B = Compound reported was present in the method blank
(1) = Proposed NJDEPE Soil Cleanup Standards (February 1992)

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TABLE 4
ESSEX SPECIALTY PRODUCTS, INC.
SAYREVILLE, NEW JERSEY
OIL/WATER SEPARATOR, WETLANDS
ADDITIONAL EXCAVATION AND
ABANDONED PIPE AREA
POST-EXCAVATION SOIL SAMPLING
ANALYTICAL RESULTS SUMMARY

	NJDEP ECRA Proposed Cleanup Standards (1) (ppm)	Sample ID	FB 4.23	OW - 1	O.V - 2	OW - 3	O.V - 4	O.V - 5	OW - 6
		Sample Date	4 23 91	4 23 91	4 23 91	4 23/91	4.23 91	4 23 91	4 23 91
		Sampling Depth	-	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"
		Trench Location	-	sidewall	base	sidewall	base	sidewall	base
		Matrix	aqueous	soil	soil	soil	soil	soil	soil
		Units	mg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TOTAL PETROLEUM HYDROCARBONS	Not Specified by NJDEP		ND	729	805	795	757	755	936
ORGANICS									
Volatile Organic Compounds (Total)			ND	0 750	ND	1.50	1.10	1 70	0 90
Benzene	1			ND		ND	ND	ND	ND
Toluene	500			ND		ND	ND	ND	ND
Xylene (total)	10			0 750		1 50	1 10	1 70	2 50
Base Neutral Compounds (Total)			ND	13 1	11 2	10.47	12 08	11 30	18 03
Phthalates									
Di-n-Butylphthalate	100		0 072 B	0 250 J	0 410 J	0 260 J	1 400	0 270 J	2 450 J
bis(2-Ethylhexyl)Phthalate	83		0 044 B	1100 B	1300 B	870 B	1300 B	880 B	[illegible] B
Di-n-Octyl Phthalate	100		ND	11 0	10 0	9 3	10 0	10 0	14 0
Polynuclear Aromatic Hydrocarbons									
Naphthalene	100		ND						
Fluorene	100		ND	0 130 J	0 100 J	0 120 J	0 110 J	0 160 J	0 190 J
Phenanthrene	--		ND	0 350 J	0 200 J	0 210 J	0 170 J	0 270 J	0 500 J
Anthracene	500		ND	0 058 J	0 047 J	0 055 J	0 050 J	0 089 J	0 150 J
Fluoranthene	500		ND	0 110 J	0 052 J	0 056 J	0 037 J	0 079 J	0 140 J
Pyrene	500		ND	1 200	0 390 J	0 470	0 310 J	0 430 J	2 500
Others									
N-Nitrosodiphenylamine	--		ND	ND	ND	ND	ND	ND	ND
Tentatively Identified Compounds									
Unknowns	--		0 001 J - 0 008 J	0 910 J - 110 JAB	0 51 - 56 JAB	0 90 J - 98 JAB	0 76 J - 100 JAB	0 75 - 38 0 JAB	1 2 J - 42 0 JAB
Unknown Alkanes	--			0 870 J - 1 20 J	1 00 J	0.78 J - 1 20 J	0 70 J - 0 99 J	0 97 J - 1 40 J	2 4 J - 2 8 J
Unknown Alkenes	--								
Unknown Hydrocarbons	--								
Unknown Ketones	--			1 40 J					
Unknown Phthalates	--			1 30 J - 3 20 J	1 30 J - 3 0 J	1 0 J - 3 7 J	0 62 J - 1 40 J	2 10 J - 9 0 J	9 9 J - 11 0 J
Unknown Cyclics and/or Aromatics	--				2 70 J				
Substituted Benzenes	--								
Substituted PAHs	--								

Prepared by EP
Checked by ES
[illegible]

A = Compound is an aldol condensate
B = Compound reported was present in the method blank
J = Quantitation value is an estimate
1 = NJDEPE Proposed Soil Cleanup Standards (February 1992)"

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TABLE 4 (CONTINUED)
ESSEX SPECIALTY PRODUCTS, INC.
SAYREVILLE, NEW JERSEY
OIL/WATER SEPARATOR, WETLANDS
ADDITIONAL EXCAVATION AND
ABANDONED PIPE AREA
POST-EXCAVATION SOIL SAMPLING
ANALYTICAL RESULTS SUMMARY

	NJDEP ECRA Proposed Cleanup Standards (1) (ppm)	Sample ID	FB 4/23	FB 4/24	AE-1	AE-2	AE-3	AE-4	AE-5
		Sample Date	4/23/91	4/24/91	4/23/91	4/23/91	4/24/91	4/24/91	4/24/91
		Sampling Depth	-	-	0-6"	0-6"	0-6"	0-6"	0-6"
		Trench Location	-	-	sidewall	base	sidewall	base	sidewall
		Matrix	aqueous	aqueous	soil	soil	soil	soil	soil
		Units	mg/L	mg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TOTAL PETROLEUM HYDROCARBONS	Not Specified by NJDEP		ND	ND	576	789	6780	5690	[illegible]
ORGANICS:									
Volatile Organic Compounds (Total)			NR	NR	0.004	0.003	ND	ND	ND
Benzene	1				ND	ND			
Toluene	500				0.0027	0.003			
Xylene (total)	10				0.0016	ND			
Base Neutral Compounds (Total)			NR	NR	0.110	0.120	1.42	0.79	[illegible]
Phthalates									
Di-n-Butylphthalate	100		0.072 B	0.073 B	0.110 J	0.120 J	1.30 J	0.790 J	[illegible] J
bis(2-Ethylhexyl)Phthalate	83		0.044 B	0.004 JB	0.550 B	1.40 B	3.50 JB	6.40 B	[illegible] B
Di-n-Octyl Phthalate	100		ND	ND	ND	ND	ND	ND	[illegible]
Polynuclear Aromatic Hydrocarbons									
Naphthalene	100		ND	ND	ND	ND	ND	ND	ND
Fluorene	100		ND	ND	ND	ND	ND	ND	ND
Phenanthrene	–		ND	ND	ND	ND	ND	ND	ND
Anthracene	500		ND	ND	ND	ND	ND	ND	ND
Fluoranthene	500		ND	ND	ND	ND	ND	ND	ND
Pyrene	500		ND	ND	ND	ND	0.120 J	ND	ND
Others									
N-Nitrosodiphenylamine	–		ND	ND	0.450 JB	0.110 JB	1.80 JB	0.470 JB	0.038 JB
Tentatively Identified Compounds									
Unknowns	–		0.001 J - 0.008 J	0.031 J	0.25 J - 28.0 JAB	0.40 J - 22.0 JAB	6.4 J - 200 JAB	2.7 J - 160 JAB	0.34 J - 33 JAB
Unknown Alkanes	–				0.29 J - 2.9 J		16.0 J - 17.0 J	3.70 J	
Unknown Alkenes	–								
Unknown Hydrocarbons	–					0.37 J			
Unknown Ketones	–								
Unknown Phthalates	–								
Unknown Cyclics and/or Aromatics	–								0.44 J - 27.0 J
Substituted Benzenes	–				0.26 J - 0.64 J			12.0 J	
Substituted PAHs	–				0.33 J - 0.62 J				

Prepared by PP
Checked by FS
pp:90-4293-d001101.xls

A = Compound is an aldol condensate
B = Compound reported was present in the method blank
J = Quantitation value is an estimate
1 = NJDEPE Proposed Soil Cleanup Standards (February 1992)

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TABLE 4 (CONTINUED)
ESSEX SPECIALTY PRODUCTS, INC.
SAYREVILLE, NEW JERSEY
OIL/WATER SEPARATOR, WETLANDS
ADDITIONAL EXCAVATION AND
ABANDONED PIPE AREA
POST-EXCAVATION SOIL SAMPLING
ANALYTICAL RESULTS SUMMARY

	NJDEP ECRA Proposed Cleanup Standards (1) (ppm)	Sample ID	FB 4/24	AE-6	AE-7	AE-8	AE-9	AE-10	AE-11	AE-12
		Sample Date	4/24/91	4/24/91	4/24/91	4/24/91	4/24/91	4/24/91	4/24/91	4/24/91
		Sampling Depth	-	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"
		Trench Location	-	base	sidewall	base	sidewall	base	sidewall	base
		Matrix	aqueous	soil	soil	aqueous	aqueous	aqueous	soil	soil
		Units	mg/L	mg/kg	mg/kg	mg/L	mg/L	mg/L	mg/kg	mg/kg
TOTAL PETROLEUM HYDROCARBONS	Not Specified by NJDEP		ND	670	603	926	549	601	560	612
ORGANICS										
Volatile Organic Compounds (Total)			NR	ND	ND	0.004	ND	ND	0.20	0.1523
Benzene	1					ND			ND	ND
Toluene	500					ND			ND	[illegible]
Xylene (total)	10					0.004			0.20	0.150
Base Neutral Compounds (Total)			ND	1.05	0.44	4.05	0.34	0.14	0.74	5.62
Phthalates										
Di-n-Butylphthalate	100		0.073 B	0.130 J	0.160 J	0.250 J	0.340 J	0.140 J	0.740	5.3
bis(2-Ethylhexyl)Phthalate	83		0.004 JB	39.0 B	130 B	950 B	3.6 B	5.9 B	1.40 B	5.1 B
Di-n-Octyl Phthalate	100		ND	0.92	0.280 J	3.8				0.320 J
Polynuclear Aromatic Hydrocarbons										
Naphthalene	100		ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	100		ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	--		ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	500		ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	500		ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	500		ND	ND	ND	ND	ND	ND	ND	ND
Others										
N-Nitrosodiphenylamine	--		ND	0.073 JB	0.032 JB	0.150 JB	0.047 JB	0.043 JB	0.058 JB	0.052 JB
Tentatively Identified Compounds										
Unknowns	--		0.031 J	0.39 J - 28 JAB	0.22 J - 34 JAB	0.53 J - 42 JAB	0.16 J - 35 JAB	0.21 J - 37 JAB	0.16 J - 56 JAB	0.190 J - 40 JAB
Unknown Alkanes	--				1.30 J	0.57 J - 9.3 J			0.26 J	
Unknown Alkenes	--								3.5 J	
Unknown Hydrocarbons	--									
Unknown Ketones	--									
Unknown Phthalates	--			0.60 J - 4.6 J	0.35 J - 2.1 J	1.5 J - 48 J		0.22 J		0.250 J
Unknown Cyclics and/or Aromatics	--									
Substituted Benzenes	--								0.16 J	
Substituted PAHs	--									

Prepared by PP
Checked by ES
pp 00x4283x001101.xls

A = Compound is an aldol condensate
B = Compound reported was present in the method blank
J = Quantitation value is an estimate
1 = NJDEPE Proposed Soil Cleanup Standards (February 1992)

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TABLE 4 (CONTINUED)
ESSEX SPECIALTY PRODUCTS, INC.
SAYREVILLE, NEW JERSEY
OIL/WATER SEPARATOR, WETLANDS
ADDITIONAL EXCAVATION AND
ABANDONED PIPE AREA
POST-EXCAVATION SOIL SAMPLING
ANALYTICAL RESULTS SUMMARY

	NJDEP ECRA Proposed Cleanup Standards (1) (ppm)	Sample ID	FB 4 24	FB 4/29	AE-13	AE-14	AE-15	AE-16	AE-17	AE-18
		Sample Date	4/24 91	4/29/91	4/24 91	4/24/91	4/29/91	4/29/91	4 29 91	4/29/91
		Sampling Depth	-	--	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"
		Trench Location	-	--	sidewall	base	sidewall	base	sidewall	base
		Matrix	aqueous	aqueous	soil	soil	soil	soil	soil	soil
		Units	mg/L	mg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TOTAL PETROLEUM HYDROCARBONS	Not Specified by NJDEP		ND	ND	1010	1070	ND	ND	1440	ND
ORGANICS:										
Volatile Organic Compounds (Total)			NP	ND	0 0047	1 63	NR	NR	3 22	NR
Benzene	1				ND	ND			ND	
Toluene	500				ND	1 500			0 120	
Xylene (total)	10				0 0047	0 130			200	
Base Neutral Compounds (Total)			ND	ND	4 12	39	NR	NR	4 1	NR
Phthalates										
Di-n-Butylphthalate	100		0 073 B	ND	3 9	37 0			4 1	
bis(2-Ethylhexyl)Phthalate	83		0 004 JB	0 001 JB	49 0 B	350 B			2 50 B	
Di-n-Octyl Phthalate	100		ND	ND	0 220 J	2 0			ND	
Polynuclear Aromatic Hydrocarbons										
Naphthalene	100		ND	ND	ND	ND			ND	
Fluorene	100		ND	ND	ND	ND			ND	
Phenanthrene	--		ND	ND	ND	ND			ND	
Anthracene	500		ND	ND	ND	ND			ND	
Fluoranthene	500		ND	ND	ND	ND			ND	
Pyrene	500		ND	ND	ND	ND			ND	
Others										
N-Nitrosodiphenylamine	--		ND	ND	0 078 JB	0 089 B			ND	
Tentatively Identified Compounds										
Unknowns	--		0 031 J		0.36 J - 36 JAB	0 34 J - 36 0 JAB			11 J - 12 J	
Unknown Alkanes	--								3 7 J - 15 J	
Unknown Alkenes	--									
Unknown Hydrocarbons	--									
Unknown Ketones	--									
Unknown Phthalates	--				1 0 J	0 54 J - 14 0 J				
Unknown Cyclics and/or Aromatics	--									
Substituted Benzenes	--									
Substituted PAHs	--									

Prepared by PP
Checked by ES
pc 80x4293 d001101 sls

A = Compound is an aldol condensate
B = Compound reported was present in the method blank
J = Quantitation value is an estimate
1 = NJDEPE Proposed Soil Cleanup Standards (February 1992)

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TABLE 4 (CONTINUED)
ESSEX SPECIALTY PRODUCTS, INC.
SAYREVILLE, NEW JERSEY
OIL/WATER SEPARATOR, WETLANDS
ADDITIONAL EXCAVATION AND
ABANDONED PIPE AREA
POST-EXCAVATION SOIL SAMPLING
ANALYTICAL RESULTS SUMMARY

	NJDEP ECRA Proposed Cleanup Standards (1) (ppm)	Sample ID	FB 4/29	FB 5/8	AE-19	AE-20	AE-21	AE-22	AE-23	AE-24
		Sample Date	4/29/91	5/8/91	4/29/91	4/29/91	5/8/91	5/8/91	5/8/91	5/8/91
		Sampling Depth	--	--	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"
		Trench Location	--	--	base	base	sidewall	base	sidewall	base
		Matrix	aqueous	aqueous	soil	soil	soil	soil	soil	soil
		Units	mg/L	mg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TOTAL PETROLEUM HYDROCARBONS	Not Specified by NJDEP		ND	ND	ND	602	330	338	349	378
ORGANICS										
Volatile Organic Compounds (Total)			ND	NR	NR	82.8	NR	NR	NR	NR
Benzene	1					ND				
Toluene	500					75.00				
Xylene (total)	10					6.80				
Base Neutral Compounds (Total)			ND	NR	NR	6.05	NR	NR	NR	NR
Phthalates										
Di-n-Butylphthalate	100		ND			5.1				
bis(2-Ethylhexyl)Phthalate	83		0.001 JB			630.0 B				
Di-n-Octyl Phthalate	100		ND			0.95				
Polynuclear Aromatic Hydrocarbons										
Naphthalene	100		ND			ND				
Fluorene	100		ND			ND				
Phenanthrene	--		ND			ND				
Anthracene	500		ND			ND				
Fluoranthene	500		ND			ND				
Pyrene	500		ND			ND				
Others										
N-Nitrosodiphenylamine	--		ND			NS				
Tentatively Identified Compounds										
Unknowns	--					1.6 J - 17 JAB				
Unknown Alkanes	--					1.4 J - 3.9 J				
Unknown Alkenes	--									
Unknown Hydrocarbons	--									
Unknown Ketones	--									
Unknown Phthalates	--					13.0 J				
Unknown Cyclics and/or Aromatics	--									
Substituted Benzenes	--					1.6 J				
Substituted PAHs	--									

Prepared by PP
Checked by ES
pp 80-4293 d001101 xls

A = Compound is an aldol condensate
B = Compound reported was present in the method blank
J = Quantitation value is an estimate
1 = NJDEPE Proposed Soil Cleanup Standards (February 1992)

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TABLE 4 (CONTINUED)
ESSEX SPECIALTY PRODUCTS, INC.
SAYREVILLE, NEW JERSEY
OIL/WATER SEPARATOR, WETLANDS
ADDITIONAL EXCAVATION AND
ABANDONED PIPE AREA
POST-EXCAVATION SOIL SAMPLING
ANALYTICAL RESULTS SUMMARY

	NJDEP ECRA Proposed Cleanup Standards (1) (ppm)	Sample ID	FB 5/8	FB 5/14	AE-25	AE-26	AE-27	AE-28	AE-29	AE-30
		Sample Date	5 8 91	5 14 91	5 8 91	5 8 91	5/14 91	5-14 91	5 14 91	5 14 91
		Sampling Depth	--	--	0-6"	0-6"	0-6"	0-5"	0-5"	[illegible]
		Trench Location	--	--	sidewall	base	sidewall	base	sidewall	base
		Matrix	aqueous	aqueous	soil	soil	soil	soil	soil	soil
		Units	mg/L	mg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TOTAL PETROLEUM HYDROCARBONS	Not Specified by NJDEP									
ORGANICS			ND	ND	399	414	197	249	283	224
Volatile Organic Compounds (Total)										
Benzene										
Toluene	1		NR	NR	NR	NR	NR	NR	NR	NR
Xylene (total)	500									
	10									
Base Neutral Compounds (Total)										
Phthalates			NR	NR	NR	NR	NR	NR	NR	NR
Di-n-Butylphthalate										
Bis(2-Ethylhexyl) Phthalate	100									
Di-n-Octyl Phthalate	83									
	100									
Polynuclear Aromatic Hydrocarbons										
Naphthalene										
Fluorene	100									
Phenanthrene	100									
Anthracene	--									
Fluoranthene	500									
Pyrene	500									
	500									
Others										
N-Nitrosodiphenylamine	--									
Tentatively Identified Compounds										
Unknowns										
Unknown Alkanes	--									
Unknown Alkenes	--									
Unknown Hydrocarbons	--									
Unknown Ketones	--									
Unknown Phthalates	--									
Unknown Cyclics and/or Aromatics	--									
Substituted Benzenes	--									
Substituted PAHs	--									

Prepared by [illegible]
Checked by ES
[illegible]

A = Compound is an aldol condensate
B = Compound reported was present in the method blank
J = Quantitation value is an estimate
1 = NJDEPE Proposed Soil Cleanup Standards (February 1992)

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TABLE 4 (CONTINUED)
ESSEX SPECIALTY PRODUCTS, INC.
SAYREVILLE, NEW JERSEY
OIL/WATER SEPARATOR, WETLANDS
ADDITIONAL EXCAVATION AND
ABANDONED PIPE AREA
POST-EXCAVATION SOIL SAMPLING
ANALYTICAL RESULTS SUMMARY

	NJDEP ECRA Proposed Cleanup Standards (1) (ppm)	Sample ID	FB 5 14	AE-31	AE-32	AE-33	AE-34	AE-35	AE-36
		Sample Date	5/14/91	5/14/91	5/14/91	5/14/91	5/14/91	5/14/91	5/14/91
		Sampling Depth	--	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"
		Trench Location	--	sidewall	base	sidewall	base	sidewall	base
		Matrix	aqueous	soil	soil	soil	soil	soil	soil
		Units	ng/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TOTAL PETROLEUM HYDROCARBONS	Not Specified by NJDEP		ND	188	225	158	192	207	189
ORGANICS									
Volatile Organic Compounds (Total)			NR	NR	NR	NR	NR	NR	NR
Benzene	1								
Toluene	500								
Xylene (total)	10								
Base Neutral Compounds (Total)			NR	NR	NR	NR	NR	NR	NR
Phthalates									
Di-n-Butylphthalate	100								
bis(2-Ethylhexyl)Phthalate	83								
Di-n-Octyl Phthalate	100								
Polynuclear Aromatic Hydrocarbons									
Naphthalene	100								
Fluorene	100								
Phenanthrene	--								
Anthracene	500								
Fluoranthene	500								
Pyrene	500								
Others									
N-Nitrosodiphenylamine	--								
Tentatively Identified Compounds									
Unknowns	--								
Unknown Alkanes	--								
Unknown Alkenes	--								
Unknown Hydrocarbons	--								
Unknown Ketones	--								
Unknown Phthalates	--								
Unknown Cyclics and/or Aromatics	--								
Substituted Benzenes	--								
Substituted PAHs	--								

Prepared by PP
Checked by ES
pc90-4293-d001101 rls

A = Compound is an aldol condensate
B = Compound reported was present in the method blank
J = Quantitation value is an estimate
1 = NJDEPE Proposed Soil Cleanup Standards (February 1992)

TABLE 4 (CONTINUED)
ESSEX SPECIALTY PRODUCTS, INC.
SAYREVILLE, NEW JERSEY
OIL/WATER SEPARATOR, WETLANDS
ADDITIONAL EXCAVATION AND
ABANDONED PIPE AREA
POST-EXCAVATION SOIL SAMPLING
ANALYTICAL RESULTS SUMMARY

	NJDEP ECRA Proposed Cleanup Standards (1) (ppm)	Sample ID	FB 4/17	AP-13	AP-14	AP-15	AP-16
		Sample Date	4/17/91	4/17/91	4/17/91	4/17/91	4/17/91
		Sampling Depth	--	0-6"	0-6"	0-6"	0-6"
		Trench Location	--	sidewall	base	sidewall	base
		Matrix	aqueous	soil	soil	soil	soil
		Units	mg/L	mg/kg	mg/kg	mg/kg	mg/kg
TOTAL PETROLEUM HYDROCARBONS	Not Specified by NJDEP		ND	2010	2200	1970	2250
ORGANICS:							
Volatile Organic Compounds (Total)			ND	0.022	0.114	ND	2.85
Benzene	1			ND	ND	ND	ND
Toluene	500			ND	0.004	ND	2.100
Xylene (total)	10			0.022	0.110	ND	0.750
Base Neutral Compounds (Total)			ND	23	1	4.4	5.2
Phthalates							
Di-n-Butylphthalate	100		0.087 B	0.270 JB	0.140 JB	ND	1.40 B
bis(2-Ethylhexyl)Phthalate	83		0.007 JB	820 B	65.0 B	1.50 B	490 B
Di-n-Octyl Phthalate	100		ND	23.0	1.0	4.4	5.2
Polynuclear Aromatic Hydrocarbons			ND	ND	ND	ND	ND
Naphthalene	100		ND	ND	ND	ND	ND
Fluorene	100		ND	ND	ND	ND	ND
Phenanthrene	--		ND	ND	ND	ND	ND
Anthracene	500		ND	ND	ND	ND	ND
Fluoranthene	500		ND	ND	ND	ND	ND
Pyrene	500		ND	ND	ND	ND	ND
Others							
N-Nitrosodiphenylamine	--		ND	ND	ND	ND	ND
Tentatively Identified Compounds							
Unknowns	--		0.033 J	0.78 J - 62 JA	0.31 J - 32JA	0.20 J - 37 JA	0.21 J - 42 JA
Unknown Alkanes	--			0.92 J - 1.20 J		0.230 J	0.370 J
Unknown Alkenes	--						
Unknown Hydrocarbons	--						
Unknown Ketones	--						
Unknown Phthalates	--			0.680 J - 68.0 J	0.410 J - 3.5 J	0.18 J - 100 J	0.34 J - 8.4 J
Unknown Cyclics and/or Aromatics	--					0.160 J	0.33 J
Substituted Benzenes	--						1.10 J
Substituted PAHs	--						

Prepared by PP
Checked by ES
pp 60x4293 d001101 xls

A = Compound is an aldol condensate
B = Compound reported was present in the method blank
J = Quantitation value is an estimate
1 = NJDEPE Proposed Soil Cleanup Standards (February 1992)

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TABLE 4 (CONTINUED)
ESSEX SPECIALTY PRODUCTS, INC.
SAYREVILLE, NEW JERSEY
OIL/WATER SEPARATOR, WETLANDS
ADDITIONAL EXCAVATION AND
ABANDONED PIPE AREA
POST-EXCAVATION SOIL SAMPLING
ANALYTICAL RESULTS SUMMARY

	NJDEP ECRA Proposed Cleanup Standards (1) (ppm)	Sample ID:	FB 4/29	FB 5/1	FB 5/1 PE	AP-17	AP-18	AP-19	AP-20	AP-21
		Sample Date:	4/29/91	5/1/91	5/1/91	4/29/91	4/29/91	4/29/91	4/29/91	5/1/91
		Sampling Depth	--	--	--	0-6"	0-6"	0-6"	0-6"	0-6"
		Trench Location:	--	--	--	sidewall	base	sidewall	base	sidewall
		Matrix	aqueous	aqueous	aqueous	soil	soil	soil	soil	soil
		Units	mg/L	mg/L	mg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TOTAL PETROLEUM HYDROCARBONS	Not Specified by NJDEP		ND	ND	ND	ND	ND	ND	ND	312
ORGANICS:										
Volatile Organic Compounds (Total)			ND	ND	ND	NR	NR	NR	NR	NR
Benzene	1									
Toluene	500									
Xylene (total)	10									
Base Neutral Compounds (Total)			ND	ND	ND	NR	NR	NR	NR	NR
Phthalates										
Di-n-Butylphthalate	100		ND	ND	ND					
bis(2-Ethylhexyl)Phthalate	83		0.001 JB	0.004 JB	0.014 B					
Di-n-Octyl Phthalate	100		ND	ND	ND					
Polynuclear Aromatic Hydrocarbons										
Naphthalene	100		ND	ND	ND					
Fluorene	100		ND	ND	ND					
Phenanthrene	--		ND	ND	ND					
Anthracene	500		ND	ND	ND					
Fluoranthene	500		ND	ND	ND					
Pyrene	500		ND	ND	ND					
Others										
N-Nitrosodiphenylamine	--		ND	ND	ND					
Tentatively Identified Compounds										
Unknowns	--									
Unknown Alkanes	--									
Unknown Alkenes	--									
Unknown Hydrocarbons	--									
Unknown Ketones	--									
Unknown Phthalates	--									
Unknown Cyclics and/or Aromatics	--									
Substituted Benzenes	--									
Substituted PAHs	--									

Prepared by PP
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A = Compound is an aldol condensate
B = Compound reported was present in the method blank
J = Quantitation value is an estimate
1 = NJDEPE Proposed Soil Cleanup Standards (February 1992)

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TABLE 4 (CONTINUED)
ESSEX SPECIALTY PRODUCTS, INC.
SAYREVILLE, NEW JERSEY
OIL/WATER SEPARATOR, WETLANDS
ADDITIONAL EXCAVATION AND
ABANDONED PIPE AREA
POST-EXCAVATION SOIL SAMPLING
ANALYTICAL RESULTS SUMMARY

	NJDEP ECRA Proposed Cleanup Standards (1) (ppm)	Sample ID	FB 5-1	FB 5-1 RE	AP-22	AP-23	AP-24	WL-1	WL-2	WL-3	WL-4
		Sample Date	5/1/91	5/1/91	5/1/91	5/1/91	5/1/91	5/1/91	5/1/91	5/1/91	5/1/91
		Sampling Depth	--	--	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"
		Trench Location	--	--	base	sidewall	base	base	base	base	base
		Matrix	aqueous	aqueous	soil	soil	soil	soil	soil	soil	soil
		Units	mg/L	mg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TOTAL PETROLEUM HYDROCARBONS	Not Specified by NJDEP		ND	ND	598	355	438	467	2390	4040	622
ORGANICS:											
Volatile Organic Compounds (Total)			ND	ND	5.7	NR	NR	NR	0.32	0.17	0.016
Benzene	1				ND				ND	ND	ND
Toluene	500				ND				ND	ND	ND
Xylene (total)	10				5.7				0.32	0.17	0.016
Base Neutral Compounds (Total)			ND	ND	39.22	NR	NR	NR	1.245	0.55	0.024
Phthalates											
Di-n-Butylphthalate	100		ND	ND	0.180 JB				3.1 B	1.7 JB	0.410 JB
bis(2-Ethylhexyl)Phthalate	83		0.004 JB	0.014 B	2.900 B				13.0 B	7.2 B	2.2 B
Di-n-Octyl Phthalate	100		ND	ND	35				ND	ND	ND
Polynuclear Aromatic Hydrocarbons											
Naphthalene	100		ND	ND	0.037 J				ND	ND	ND
Fluorene	100		ND	ND	0.190 J				ND	ND	ND
Phenanthrene	--		ND	ND	0.39				0.260 J	0.170 J	ND
Anthracene	500		ND	ND	0.120 J				0.025 J	ND	ND
Fluoranthene	500		ND	ND	ND				0.500 J	0.260 J	0.010 J
Pyrene	500		ND	ND	ND				0.460 J	0.130 J	0.014 J
Others											
N-Nitrosodiphenylamine	--		ND	ND	ND				ND	ND	ND
Tentatively Identified Compounds											
Unknowns	--				1.3 J - 25 JAB				0.74 J - 110 JAB	1.2 J - 120 JAB	0.220 J - 30 JAB
Unknown Alkanes	--				1.2 J - 3.3 J				11.0 J	5.2 J	1.6 JB - 2.2 JB
Unknown Alkenes	--										
Unknown Hydrocarbons	--										
Unknown Ketones	--										
Unknown Phthalates	--				1.9 J						
Unknown Cyclics and/or Aromatics	--				1.1 J				0.80 J - 4.4 J		
Substituted Benzenes	--				2.0 J - 4.3 J						
Substituted PAHs	--								1.0 J		

Prepared by PP
Checked by ES
pp/93-4293-d001K01.xls

A = Compound is an aldol condensate
B = Compound reported was present in the method blank
J = Quantitation value is an estimate
1 = NJDEPE Proposed Soil Cleanup Standards (February 1992)

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TABLE 5
ESSEX SPECIALTY PRODUCTS, INC.
SAYREVILLE, NEW JERSEY
ABANDONED PIPE
POST-EXCAVATION SOIL SAMPLING
ANALYTICAL RESULTS SUMMARY

		Sample ID	FB 4-16	AP-4	AP-5	AP-6	AP-7	AP-8
		Sample Date	4/16/91	4/16/91	4/16/91	4/16/91	4/16/91	4/16/91
		Sampling Depth	-	0-6"	0-6"	0-6"	0-6"	0-6"
		Trench Location	-	sidewall	base	sidewall	base	sidewall
		Matrix:	water	soil	soil	soil	soil	soil
		Units:	mg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	NJDEP ECRA							
	Proposed Cleanup Standards (1)							
	PPM							
TOTAL PETROLEUM HYDROCARBONS (2)	Not Specified by NJDEP		< 0.2	1930	1880	2250	2250	2090
ORGANICS								
Volatile Organic Compounds (Total) (3)			ND	ND	ND	ND	20,000	1170,000
Benzene	1						ND	ND
Toluene	500						8,000	1000,000
Xylene (total)	10						12,000	170,000
Base Neutral Compounds (Total) (3)			0.028	432,073	49,785	233.77	640,037	2343,784
N-Nitrosodiphenylamine	100			0.053 JB	0.085 JB	0.030 JB		
Di-n-Butylphthalate	100		0.002 JB	0.420 JB	1.100 JB	2.900 B	0.490 JB	4.800 B
bis(2-Ethylhexyl)Phthalate	83		0.025 B	430,000 B	47,000 B	230,000 B	620,000 B	2300,000 B
Di-n-Octyl Phthalate	100			1.600	1.600	0.840	9.700	38,000
Naphthalene	100							0.050 J
Acenaphthene	100							0.076 J
Fluorene	100						0.040 J	0.250 J
Phenanthrene	--						0.058 J	0.330 J
Anthracene	500						0.019 J	0.057 J
Fluoranthene	500							0.031 J
Pyrene	500						0.030 J	0.120 J
2-Methylnaphthalene	--							
Tentatively Identified Compounds (5)								
Unknowns	--		0.005 J - 0.014 J	0.37 J - 16 J	0.92 J - 28 JAB	0.23 J - 28 JAB	1.1 J - 23 JAB	1.7 J - 14 JAB
Unknown Alkanes	--							2.000 J
Unknown Alkenes	--			2.000 J				
Unknown Hydrocarbons	--		0.006 J - 0.009 J				2.600 J	
Unknown Phthalates	--			0.59 J - 4.7 J	2.2 J - 6.7 J	3.600 J	1.6 J - 4.7 J	1.5 J - 45.0 J
Substituted Benzenes	--						1.1 J - 7.4 J	2.4 J - 7.9 J
Substituted Naphthalenes	--							

Prepared by SAI
Checked by JMD
[illegible]

J = Quantitation value is considered an estimate
A= Compound is an aldol condensate
B = Compound reported was present in the method blank
(1) = Proposed NJDEPE Soil Cleanup Standards (February 1992)

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TABLE 5 (CONTINUED)
ESSEX SPECIALTY PRODUCTS, INC.
SAYREVILLE, NEW JERSEY
ABANDONED PIPE
POST-EXCAVATION SOIL SAMPLING
ANALYTICAL RESULTS SUMMARY

		Sample ID	AP-9	FB 4-17	AP-10	AP-11	AP-12	AP-13	AP-14
		Sample Date	4-16-91	4-17-91	4-16-91	4-16-91	4-16-91	4-17-91	4-17-91
		Sampling Depth	0-6"	-	0-6"	0-6"	0-6"	0-6"	0-6"
		Trench Location	base	-	base	base	base	sidewall	base
		Matrix	soil	water	soil	soil	soil	soil	soil
		Units	mg/kg	mg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	NJDEP ECRA Proposed Cleanup Standards (1) EPM								
TOTAL PETROLEUM HYDROCARBONS (2)	Not Specified by NJDEP		2270	< 0.2	2370	2480	2460	2010	2200
ORGANICS									
Volatile Organic Compounds (Total) (3)			41,500	NVR	11,000	104,000	38,500	NVR	NVR
Benzene	1		ND						
Toluene	500		6,500			9,000	4,500		
Xylene (total)	10		35,000		11,000	95,000	34,000		
Base Neutral Compounds (Total) (3)			1513.628	NVR	2011.896	2219.087	2724.678	NVR	NVR
N-Nitrosodiphenylamine	100								
Di-n-Butylphthalate	100		3.100 B		0.630 JB	0.700 JB	1.500 B		
bis(2-Ethylhexyl)Phthalate	83		1500.000 B		2000.000 B	2200.000 B	2700.000 B		
Di-n-Octyl Phthalate	100		10.000		11.000	17.000	23.000		
Naphthalene	100								
Acenaphthene	100								
Fluorene	100		0.100 J		0.077 J	0.097 J	0.058 J		
Phenanthrene	--		0.170 J		0.120 J	0.150 J	0.089 J		
Anthracene	500		0.051 J		0.040 J		0.031 J		
Fluoranthene	500		0.057 J		0.029 J				
Pyrene	500		0.150 J			0.140 J			
2-Methylnaphthalene	--								
Tentatively Identified Compounds (5)									
Unknowns	--		1.4 J - 32 JAB		0.8 JB - 34 JAB	2.1 J - 37 JAB	0.97 J - 31 JAB		
Unknown Alkanes	--				0.970 J	2.5 J - 4.5 J	0.880 J		
Unknown Alkenes	--								
Unknown Hydrocarbons	--		2.200 J						
Unknown Phthalates	--		1.5 J - 9.2 J		0.85 J - 2.4 J	2.8 J - 35.0 J	1.4 J - 3.1 J		
Substituted Benzenes	--		1.200 J			3.9 J - 13.0 J	1.8 J - 2.1 J		
Substituted Naphthalenes	--						2.100 J		

Prepared by SH
Checked by JVD
J = Quantitation value is considered an estimate
A= Compound is an aldol condensate
B = Compound reported was present in the method blank
(1) = Proposed NJDEPE Soil Cleanup Standards (February 1992)

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TABLE 5 (CONTINUED)
ESSEX SPECIALTY PRODUCTS, INC.
SAYREVILLE, NEW JERSEY
ABANDONED PIPE
POST-EXCAVATION SOIL SAMPLING
ANALYTICAL RESULTS SUMMARY

		Sample ID	AP-15	AP-16	FB 3-14	FB 3-18	AP-1	AP-2	AP-3
		Sample Date	4/17/91	4/17/91	3/14/91	3/18/91	3/14/91	3/18/91	3/18/91
		Sampling Depth	0-6"	0-6"					
		Trench Location	sidewall	base					
		Matrix	soil	soil	water	water	water	soil	soil
		Units	mg/kg	mg/kg	mg/L	mg/L	mg/L	mg/kg	mg/kg
	NJDEP ECRA								
	Proposed Cleanup Standards (1)								
	PPM								
TOTAL PETROLEUM HYDROCARBONS (2)	Not Specified by NJDEP		1970	2260	<0.2	<0.2	144	760	5250
ORGANICS:									
Volatile Organic Compounds (Total) (3)			NYR	NYR					
Benzene	1							5.2	0.0361
Toluene	500							0.001	
Xylene (total)	10							0.49	0.001
								4.7	0.036
Base Neutral Compounds (Total) (3)			NYR	NYR	0.02	0.018	0.52	1273.135	4044
N-Nitrosodiphenylamine	100								
Di-n-Butylphthalate	100				0.009 J	0.006			
bis(2-Ethylhexyl)Phthalate	83				0.011 B	0.012	0.520 B	1300 B	4000 B
Di-n-Octyl Phthalate	100							71	44
Naphthalene	100							0.057 J	
Acenaphthene	100							0.078 J	
Fluorene	100							0.2 J	
Phenanthrene	--							0.32 J	
Anthracene	500								
Fluoranthene	500								
Pyrene	500								
2-Methylnaphthalene	--								
Tentatively Identified Compounds (5)								0.48	
Unknowns	--				0.008 J	0.004 J	0.13 J - 0.53 J	3.8 JA - 4.8 J	1.3 J - 4.3 JA
Unknown Alkanes	--						0.13 J - 0.37 J	2.8 J - 5.9 J	1.8J
Unknown Alkenes	--								
Unknown Hydrocarbons	--								
Unknown Phthalates	--							2.9 J - 11.0 J	5.4 J - 74.0 J
Substituted Benzenes	--							3.4 J - 4.4 J	
Substituted Naphthalenes	--								

Prepared by SH
Checked by AID
esbuterexpt1.xls

J = Quantitation value is considered an estimate
A= Compound is an aldol condensate
B = Compound reported was present in the method blank
(1) = Proposed NJDEPE Soil Cleanup Standards (February 1992)

TABLE 6
ESSEX SPECIALTY PRODUCTS, INC.
SAYREVILLE, NEW JERSEY
OIL/WATER SEPARATOR AND PAVEMENT AREA
SOIL SAMPLING
ANALYTICAL RESULTS SUMMARY

	NJDEP ECRA Proposed Cleanup Standards (1) (ppm)	Sample ID	FB 8/8/91	CW-7	CW-8	CW-9	CW-10	CW-11	CW-12	CW-13
		Sample Date	8/8/91	8/8/91	8/8/91	8/8/91	8/8/91	8/8/91	8/8/91	8/8/91
		Sampling Depth	-	0 - 6"	0 - 6"	0 - 6"	0 - 6"	0 - 6"	0 - 6"	0 - 6"
		Location	-	sidewall	sidewall	sidewall	sidewall	base	sidewall	[illegible]
		Matrix	aqueous	soil	soil	soil	soil	soil	soil	soil
		Units	mg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Total Petroleum Hydrocarbons	Not Specified by NJDEP		< 1.0	435	491	99.1	968	< 10.0	1930	[illegible]
Volatile Organic Compounds (Total)										
Benzene	1		ND	NA	NA	NA	0.572	NA	79.28	NA
Toluene	500						0.002		0.16	
Total Xylenes	10						0.570		0.10	
Base Neutral Compounds (Total)			ND	489.24	560.47	NA	1244.59	NA	79	
Phthalates									1100.40	NA
Diethylphthalate	--									
Butylbenzylphthalate	100									
Di-n-Butylphthalate	100									
Bis(2-Ethylhexyl)Phthalate	100		0.009 B	1.5	2.0					
Di-n-Octyl Phthalate	100			480.0	550.0		1.1		0.10 J	
Polynuclear Aromatic Hydrocarbons				7.6	7.7		960.0		5.5	
2-Methylnaphthalene	--						280.0		700.0	
Naphthalene	100			0.014 J	0.220 J				320.0	
Acenaphthene	100						0.550			
Fluorene	100						0.470		12.0	
Phenanthrene	--				0.110 J		0.25 J		0.450	
Anthracene	500			0.029 J	0.170 J		0.680		2.5	
Fluoranthene	500			0.011 J	0.050 J		0.990		5.4	
Pyrene	500			0.018 J	0.029 J		0.34 J		19.0	
Chrysene	500			0.059 J	0.078 J		0.067 J		5.9	
Benzo(a)anthracene	500								2.0	
Other Base Neutrals									0.730	
Dibenzofuran	--								0.930	
N-Nitrosodiphenylamine	100				0.130 J		0.13 J		0.21 J	
Tentatively Identified Compounds										
Unknowns	--			1.1J-48JAB	1.1J-48JAB		11J-32JAB		23.0	
Unknown Alkanes	--			0.51J-1.9J	49J-1.7J				3.5J-24JAB	
Unknown Alkenes	--									
Unknown Acids	--			60J-21J	41J-1.7J		12J		4.9J-5.1J	
Unknown Hydrocarbons	--			22J	16J-22J		2.6J-11J		11J-16J	
Substituted Benzene	--									
Unknown Phenols	--			59J-73J	81J		2.7J-23J		7.7J-9.9J	
Unknown PAHs	--									
Unknown Cyclics and/or Aromatics	--									

Prepared by PP
Checked by DRK
[illegible]

A = Compound is an aldol condensate
B = Compound reported was present in the method blank
J = Quantitation value is an estimate
(1) = NJDEPE Proposed Soil Cleanup Standards (February 1992)

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TABLE 6 (CONTINUED)
ESSEX SPECIALTY PRODUCTS, INC.
SAYREVILLE, NEW JERSEY
OIL/WATER SEPARATOR AND PAVEMENT AREA
SOIL SAMPLING
ANALYTICAL RESULTS SUMMARY

	NJDEP ECRA Proposed Cleanup Standards (1) (ppm)	Sample ID	OW-14	OW-15	OW-16	OW-17	AE-3A	AE-4A
		Sample Date	8/8/91	8/8/91	8/8/91	8/8/91	8/8/91	8/8/91
		Sampling Depth	0-6"	0-6"	0-6"	0-6"	0-6"	0-6"
		Location	sidewall	base	base	base	sidewall	base
		Matrix	soil	soil	soil	soil	soil	soil
		Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Total Petroleum Hydrocarbons	Not Specified by NJDEP		403	1050	120	314	428	310
Volatile Organic Compounds (Total)			NA	1.714	NA	NA	NA	NA
Benzene	1			0.012				
Toluene	500			0.002				
Total Xylenes	10			1.7				
Base Neutral Compounds (Total)			NA	635.36	NA	NA	26.3	23.61
Phthalates								
Diethylphthalate	--			0.27 J				
Butylbenzylphthalate	100			1.5			17.0	23
Di-n-Butylphthalate	100			620.0			9.3	0.610 J
bis,2-Ethylhexyl Phthalate	100			12.0				
Di-n-Octyl Phthalate	100							
Polynuclear Aromatic Hydrocarbons								
2-Methylnaphthalene	--			0.12 J				
Naphthalene	100							
Acenaphthene	100			0.17 J				
Fluorene	100			0.32 J				
Phenanthrene	--			0.070 J				
Anthracene	500			0.058 J				
Fluoranthene	500			0.22 J				
Pyrene	500							
Chrysene	500							
Benzo(a)anthracene	500							
Other Base Neutrals								
Dibenzofuran	--			0.10 J				
N-Nitrosodiphenylamine	100			0.23 J				
Tentatively Identified Compounds								
Unknowns	--			92J-18JAB			2.6J-290JAB	1.7J-410JAB
Unknown Alkanes	--			1.3J-2.5J			5J-9J	
Unknown Alkenes	--						1.2J	
Unknown Acids	--			1.1J-2.8J				1.7J
Unknown Hydrocarbons	--			1.4J-5.9J			1.7J-6J	5.3J-9.6J
Substituted Benzene	--							
Unknown Phenols	--						7.6J	
Unknown PAHs	--							
Unknown Cyclics and/or Aromatics	--						1.3J-5.2J	2.7J-5.2J

Prepared by PP
Checked by DRK
pp90-4293-4004/01.xls

A = Compound is an aldol condensate
B = Compound reported was present in the method blank
J = Quantitation value is an estimate
(1) = NJDEPE Proposed Soil Cleanup Standards (February 1992)

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TABLE 6 (CONTINUED)
ESSEX SPECIALTY PRODUCTS, INC.
SAYREVILLE, NEW JERSEY
OIL/WATER SEPARATOR AND PAVEMENT AREA
SOIL SAMPLING
ANALYTICAL RESULTS SUMMARY

	NJDEP ECRA Proposed Cleanup Standards (1) (ppm)	Sample ID	FB 731	T-1	T-2	T-3	T-4	T-5
		Sample Date	7/31/91	7/31/91	7/31/91	7/31/91	7/31/91	7/31/91
		Sampling Depth	-	3.5 - 4'	3.5 - 4'	3.5 - 4'	4.5 - 5'	4.5 - 5'
		Location	-	boring	boring	boring	boring	boring
		Matrix	aqueous	soil	soil	soil	soil	soil
		Units	mg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Total Petroleum Hydrocarbons	Not Specified by NJDEP		NA	NA	NA	NA	NA	NA
Volatile Organic Compounds (Total)			ND	0.662	0.003	ND	0.001	0.001
Benzene	1							
Toluene	500			0.61	0.003		0.001	0.001
Total Xylenes	10			0.052				
Base Neutral Compounds (Total)			0.002	5.77	2.084	4.94	4.58	5.3
Phthalates								
Diethylphthalate	--		0.002 JB					
Butylbenzylphthalate	100		0.001 J	0.37 J	1.0	2.6	2.3	1.3
Di-n-Butylphthalate	100		0.001 J	4.4	1.0	2.2	2.1	3.1
bis(2-Ethylhexyl)Phthalate	100		0.015 B	1.0	0.034 J	0.14 J	0.14 J	0.9
Di-n-Octyl Phthalate	100						0.044 J	
Polynuclear Aromatic Hydrocarbons								
2-Methylnaphthalene	--							
Naphthalene	100							
Acenaphthene	100							
Fluorene	100							
Phenanthrene	--							
Anthracene	500							
Fluoranthene	500							
Pyrene	500							
Chrysene	500							
Benzo(a)anthracene	500							
Other Base Neutrals								
Dibenzofuran	--							
N-Nitrosodiphenylamine	100							
Tentatively Identified Compounds								
Unknowns	--		0.019J	9J-45JAB	49J-24JAB	0.18JA-52JAB	16J-65JAB	19J-49JAB
Unknown Alkanes	--					3J		
Unknown Alkenes	--							
Unknown Acids	--							
Unknown Hydrocarbons	--				4J	19J-88J	18J-75J	19J
Substituted Benzene	--							
Unknown Phenols	--							
Unknown PAHs	--							
Unknown Cyclics and/or Aromatics	--							

Prepared by PP
Checked by DRK
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A = Compound is an aldol condensate
B = Compound reported was present in the method blank
J = Quantitation value is an estimate
(1) = NJDEPE Proposed Soil Cleanup Standards (February 1992)

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TABLE 7
ESSEX SPECIALTY PRODUCTS, INC.
SAYREVILLE, NEW JERSEY
OIL/WATER SEPARATOR
SOIL SAMPLING
ANALYTICAL RESULTS SUMMARY

	NJDEP ECRA Proposed Cleanup Standards(1) (ppm)	Sample ID	FB 9.19	FB1002	OW-18	OW-19	OW-20	OW-21	OW-22
		Sample Date	9/19/91	10/2/91	9/19/91	9/19/91	9/19/91	10/2/91	10/2/91
		Sampling Depth	-	-	7.0 - 7.5'	4.5 - 5.0'	4.5 - 5.0'	4.5 - 5.0'	3.5 - 4.0'
		Location	-	-	base	sidewall	sub-surface	sub-surface	sub-surface
		Matrix	aqueous	aqueous	soil	soil	soil	soil	soil
		Units	mg/L	mg/L	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Total Petroleum Hydrocarbons	**Not Specified by NJDEP**		< 1.0	< 1.0	< 10.0	15580	225	539	2870
Volatile Organic Compounds (Total)			ND	ND	NA	2.412	NA	ND	ND
Benzene	1					0.003			
Toluene	500					0.009			
Total Xylenes	10					2.400			
Base Neutral Compounds (Total)			ND	ND	NA	2007.9	NA	10.9	697.9
Phthalates									
Butylbenzylphthalate	100								
Di-n-Butylphthalate	100		0.026B			0.2J			1.0J
bis(2-Ethylhexyl)Phthalate	100		0.008JB	0.0021JB		2000.0		1.3	1.1J
Di-n-Octyl Phthalate	100					7.9		9.5	48.0
Polynuclear Aromatic Hydrocarbons								[illegible]	640.0
2-Methylnaphthalene	100					0.046J			
Phenanthrene	--					0.031J			
Anthracene	500					0.007J			
Pyrene	500								
Chrysene	500								9.9
Tentatively Identified Compounds									3.3J
Propylbenzene	--					1.2J			
Unknowns	--		0.008JB			23J-53J		37-22J4B	
Unknown Alkanes	--					43J			
Unknown Acids	--					50J			
Substituted Benzene	--					58J-340J			
Unknown Phthalate	--					4.2J-15J			5J-200J
Unknown Aromatics	--					43J-63J			

Prepared by RJM
Checked by DRK
pp 80-4263-d005d01.xls

A = Compound is an aldol condensate
B = Compound reported was present in the method blank
J = Quantitation value is an estimate
(1) = NJDEPE Proposed Soil Cleanup Standards (February 1992)

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TABLE 7 (CONTINUED)
ESSEX SPECIALTY PRODUCTS, INC.
SAYREVILLE, NEW JERSEY
OIL/WATER SEPARATOR
SOIL SAMPLING
ANALYTICAL RESULTS SUMMARY

	NJDEP ECRA Proposed Cleanup Standards (1) (ppm)	Sample ID	FE1030	OW-23 (4.5-5.0')	OW-23 (5.5-6.0')	OW-24 (3.5-4.0')	OW-24 (4.5-5.0')
		Sample Date	10/30/91	10/30/91	10/30/91	10/30/91	10/30/91
		Sampling Depth	-	4.5 - 5.0'	5.5 - 6.0'	3.5 - 4.0'	4.5 - 5.0'
		Location	-	sub-surface	sub-surface	sub-surface	sub-surface
		Matrix	aqueous	soil	soil	soil	soil
		Units	mg/L	mg/kg	mg/kg	mg/kg	mg/kg
Total Petroleum Hydrocarbons	Not Specified by NJDEP		< 1.0	37.9	101	1450	173
Volatile Organic Compounds (Total)			ND	NA	NA	0.008	NA
Benzene	1						
Toluene	500						
Total Xylenes	10					0.008	
Base Neutral Compounds (Total)			ND	NA	NA	922.7	NA
Phthalates							
Di-n-Butylphthalate	100		0.004JB			27J	
bis(2-Ethylhexyl)Phthalate	100		0.001J			910.0	
Di-n-Octyl Phthalate	100					12.0	
Polynuclear Aromatic Hydrocarbons							
Phenanthrene	--					055J	
Pyrene	500					34J	
Tentatively Identified Compounds							
Unknowns	--					1.4J - 55J	
Unknown Hydrocarbon	--					2.3J - 4.6J	
Unknown Phenol	--					4.8J	

Prepared by RJM
Checked by DRK
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A = Compound is an aldol condensate
B = Compound reported was present in the method blank
J = Quantitation value is an estimate
(1) = NJDEPE Proposed Soil Cleanup Standards (February 1992)

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TABLE 8
APPROXIMATE CLEANUP COSTS
ESSEX SPECIALTY PRODUCTS
SAYREVILLE, NEW JERSEY

COST ELEMENT	ESTIMATED COST	ACTUAL COST
Direct Cleanup Cost	428,000	2,308,770
Analytical Costs	68,210	95,060
Sampling/Engineering/ Inspection Costs	53,790	200,000
TOTAL	$550,000	$2,603,830

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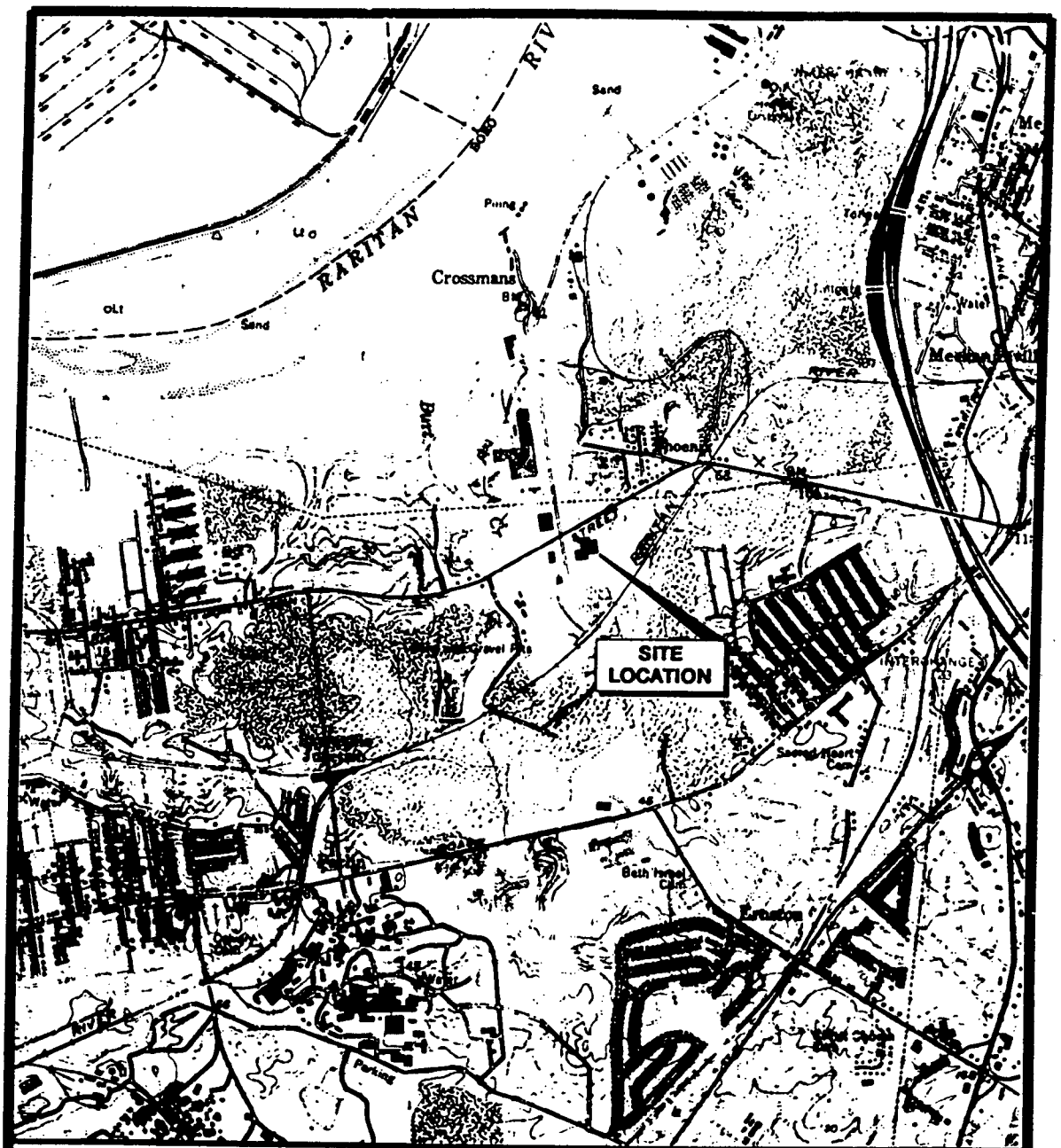


0 2000 4000 FT

SCALE

MAP SOURCE:

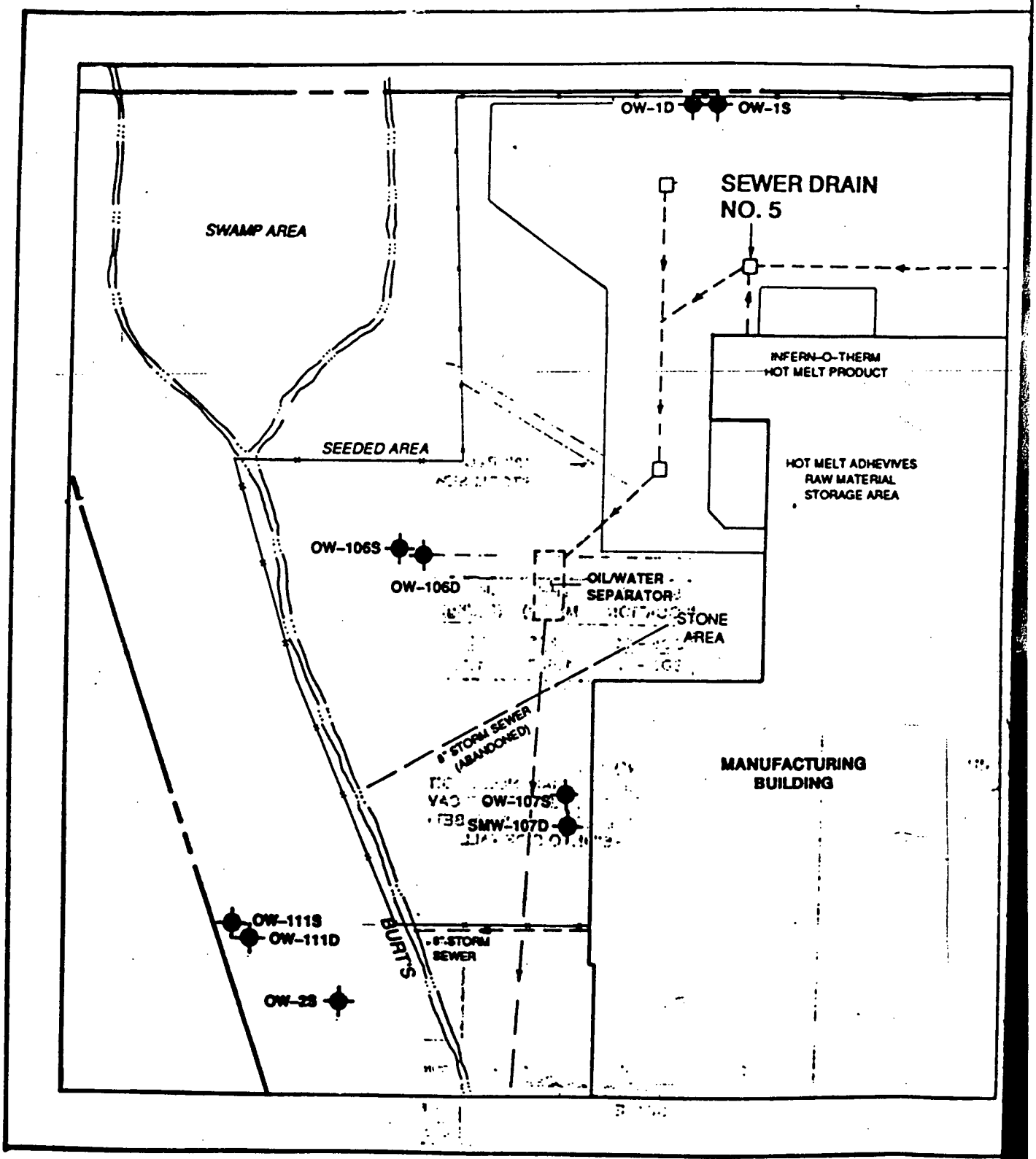
USGS 7.5 MIN. QUADRANGLE
SOUTH AMBOY, NJ–NY
DATED 1954. (PHOTOREVISED
1981).

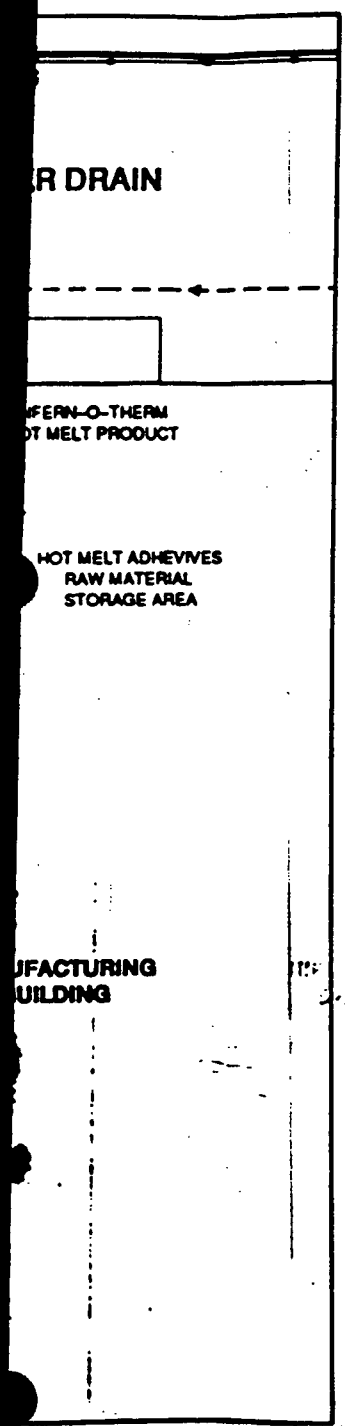
SITE LOCATION MAP
ESSEX SPECIALTY PRODUCTS, INC.
SAYREVILLE, NEW JERSEY

WOODWARD–CLYDE CONSULTANTS

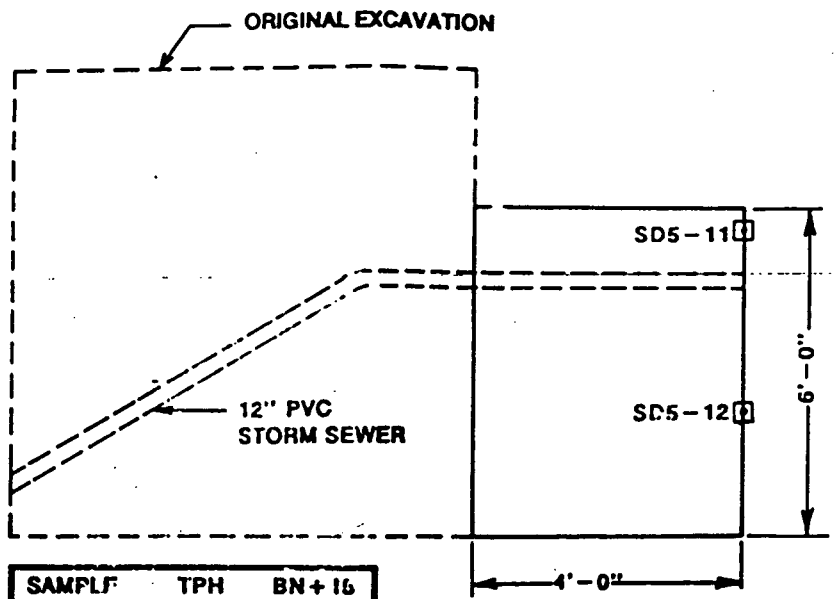
CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS
WAYNE, NEW JERSEY

DR. BY:	KJF	SCALE:	AS SHOWN	PROJ. NO.:	90X4293
CK'D BY:	CWT	DATE:	13 JUL 1992	FIG. NO:	1


OW-1D
OW-1S
SEWER DRAIN
NO. 5
SWAMP AREA
INFERN-O-THERM
HOT MELT PRODUCT
SEEDED AREA
HOT MELT ADHEVIVES
RAW MATERIAL
STORAGE AREA
OW-106S
OW-106D
OIL/WATER
SEPARATOR
STONE
AREA
8" STORM SEWER
(ABANDONED)
MANUFACTURING
BUILDING
OW-107S
SMW-107D
OW-111S
OW-111D
BURT'S
8" STORM
SEWER
OW-2S

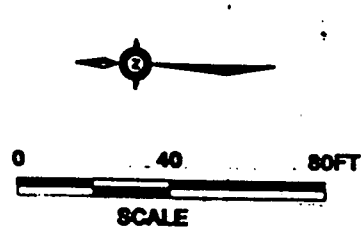


SEWER DRAIN NO.5



SAMPLE LOCATION	TPH (Mg/Kg)	BN+15 (Mg/Kg)
SD5-11	2,316	9.35
SD5-12	1,566	11.76

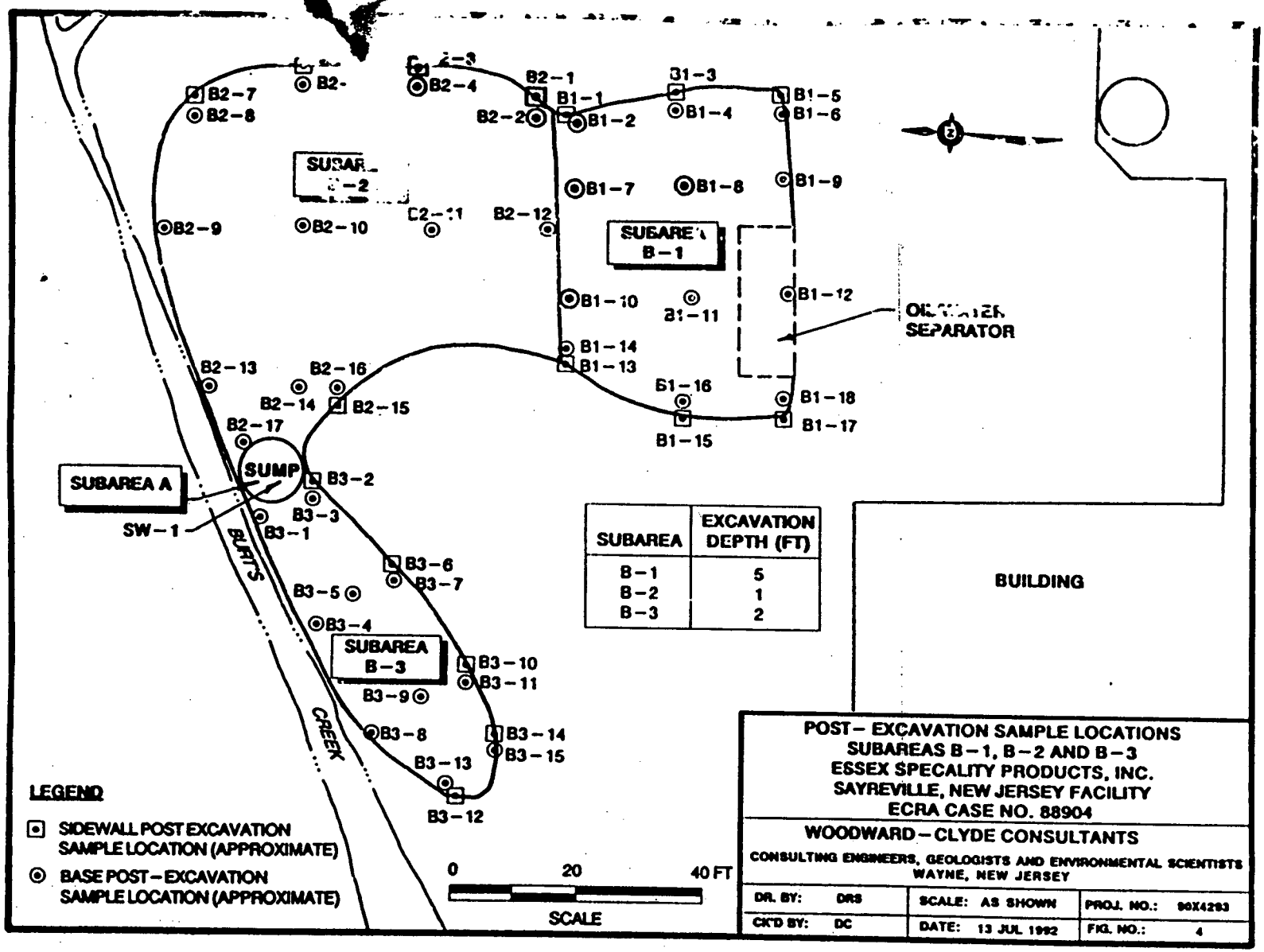
NOTES:
SEWER DRAIN NO.5 ADDITION EXCAVATION DEPTH: 2FT
⊡SIDEWALL POST-EXCAVATION SAMPLE LOCATION (APPROXIMATE)
COLLECTED MIDWAY BETWEEN TOP AND BASE OF EXCAVATION
0-6" INTO SIDEWALL



SEWER DRAIN NO.5
ADDITIONAL EXCAVATION
ESSEX SPECIALTY PRODUCTS, INC.
SAYREVILLE, NEW JERSEY
ECRA CASE NO. 88904

WOODWARD-CLYDE CONSULTANTS, INC.
CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS
WAYNE, NEW JERSEY

DR. BY:	FWD	SCALE:	AS SHOWN	PROJ. NO.:	[illegible]
CK'D BY:	DRK	DATE:	13 JUL 1992	FIGURE NO.:	3

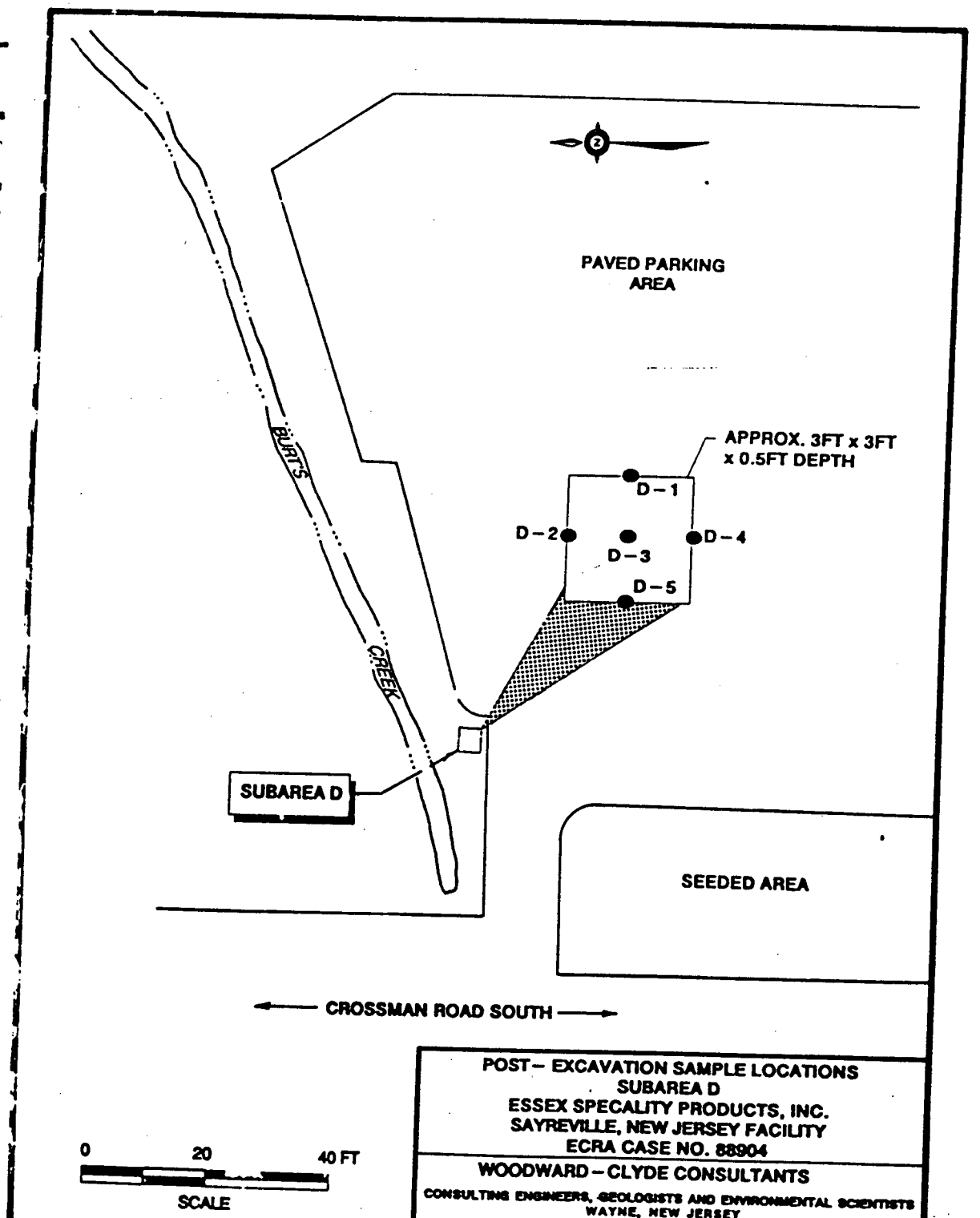


SUBAREA	EXCAVATION DEPTH (FT)
B-1	5
B-2	1
B-3	2

POST-EXCAVATION SAMPLE LOCATIONS
SUBAREAS B-1, B-2 AND B-3
ESSEX SPECALITY PRODUCTS, INC.
SAYREVILLE, NEW JERSEY FACILITY
ECRA CASE NO. 88904

WOODWARD-CLYDE CONSULTANTS
CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS
WAYNE, NEW JERSEY

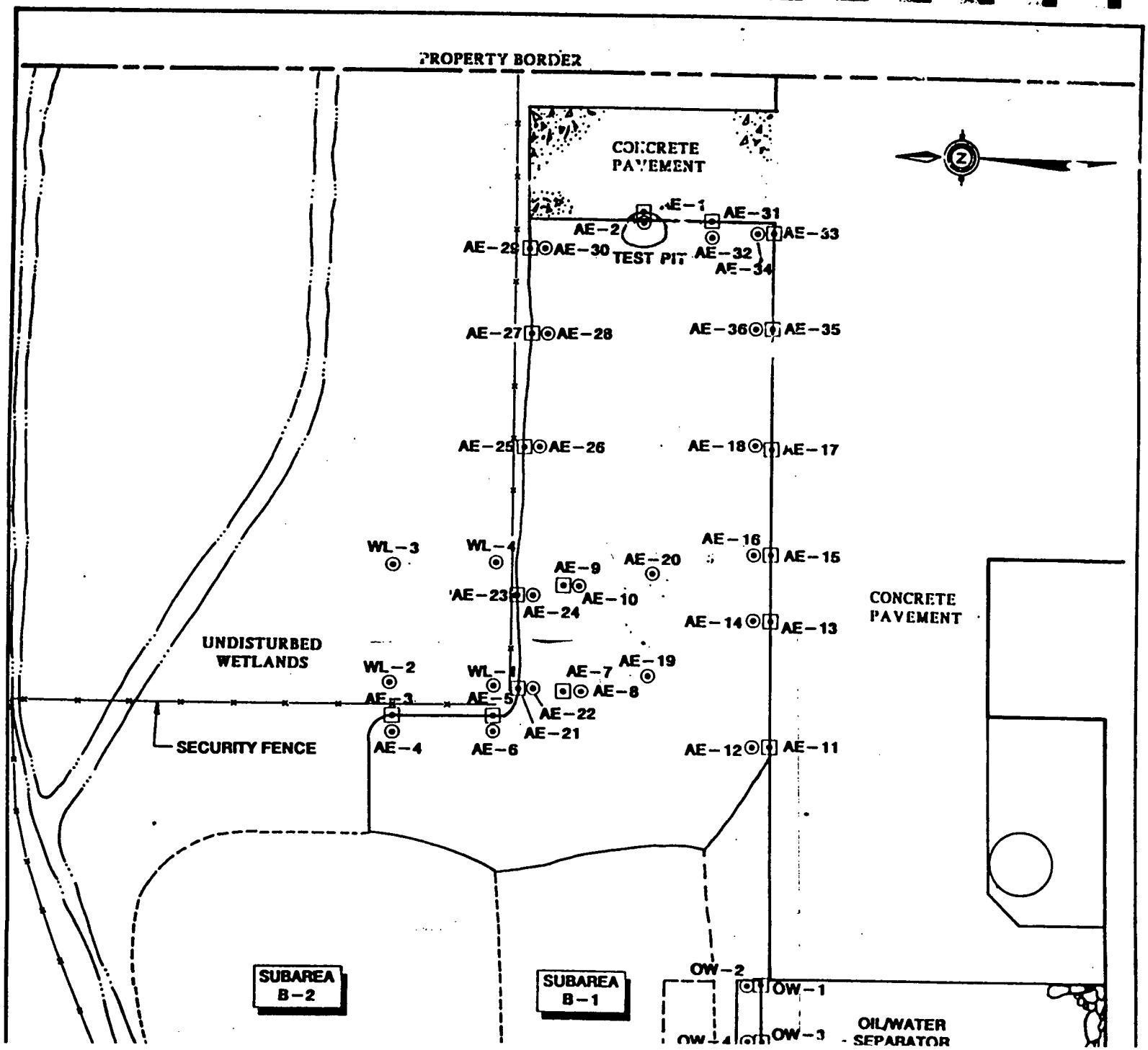
DR. BY:	DRS	SCALE:	AS SHOWN	PROJ. NO.:	90X4293
CK'D BY:	DC	DATE:	13 JUL 1992	FIG. NO.:	4

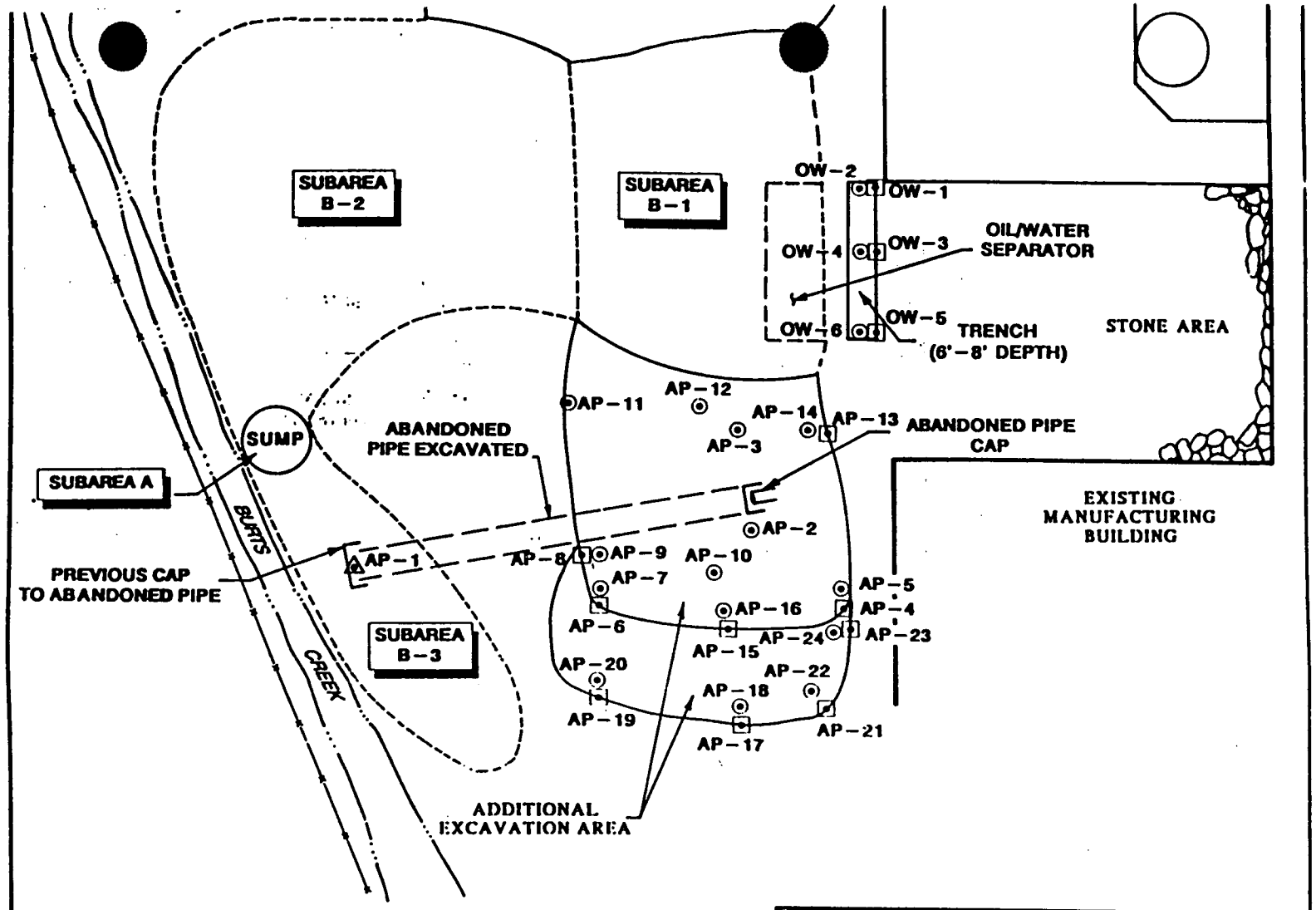


POST– EXCAVATION SAMPLE LOCATIONS
SUBAREA D
ESSEX SPECALITY PRODUCTS, INC.
SAYREVILLE, NEW JERSEY FACILITY
ECRA CASE NO. 88904

WOODWARD–CLYDE CONSULTANTS
CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS
WAYNE, NEW JERSEY

DR. BY:	DRS	SCALE:	AS SHOWN	PROJ. NO.:	90X4293
CK'D BY:	DC	DATE:	13 JUL 1992	FIG. NO.:	5


PROPERTY BORDER
CONCRETE PAVEMENT
AE-1
AE-2
AE-31
AE-33
AE-29
AE-30
TEST PIT
AE-32
AE-34
AE-27
AE-28
AE-36
AE-35
AE-25
AE-26
AE-18
AE-17
WL-3
WL-4
AE-16
AE-15
AE-9
AE-20
AE-23
AE-10
AE-24
AE-14
AE-13
CONCRETE PAVEMENT
UNDISTURBED WETLANDS
WL-2
WL-1
AE-19
AE-7
AE-3
AE-5
AE-8
AE-22
AE-21
SECURITY FENCE
AE-4
AE-6
AE-12
AE-11
SUBAREA B-2
SUBAREA B-1
OW-2
OW-1
OW-4
OW-3
OIL/WATER SEPARATOR



LEGEND

- ⊡ SIDEWALL POST EXCAVATION SAMPLE LOCATION (APPROXIMATE)
- ⊙ BASE POST-EXCAVATION SAMPLE LOCATION (APPROXIMATE)
- △ WATER SAMPLE LOCATION (APPROXIMATE)

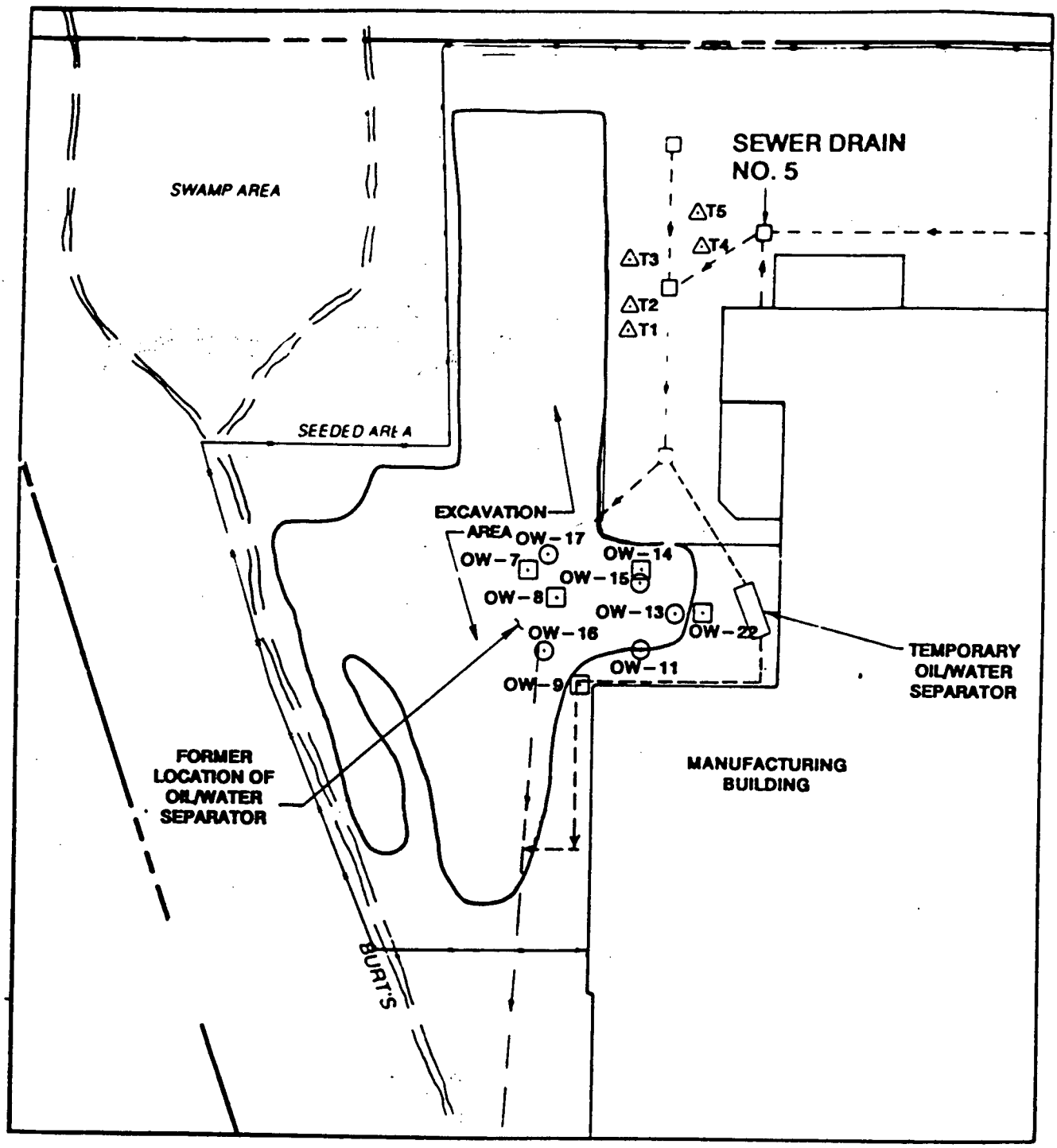
0 20 40 FT
SCALE

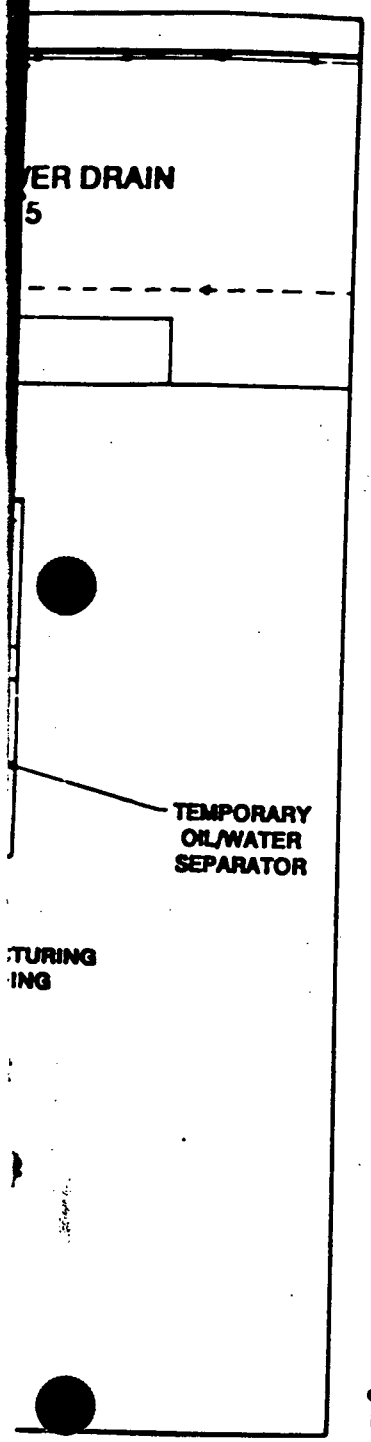
POST-EXCAVATION SAMPLE LOCATIONS
ADDITIONAL EXCAVATION AREAS
ESSEX SPECIALTY PRODUCTS, INC.
SAYREVILLE, NEW JERSEY FACILITY
ECRA CASE NO. 88904

WOODWARD-CLYDE CONSULTANTS
CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS
WAYNE, NEW JERSEY

DR. BY:	FWD	SCALE:	AS SHOWN	PROJ. NO.:	90X4293
CK'D BY:	DC	DATE:	13 JUL 1992	FIG. NO.:	6

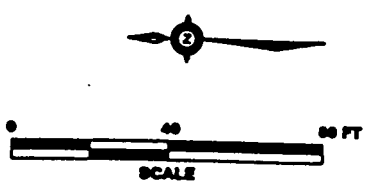
5f


SEWER DRAIN
NO. 5
SWAMP AREA
T5
T4
T3
T2
T1
SEEDED AREA
EXCAVATION
AREA
OW-17
OW-7
OW-14
OW-15
OW-8
OW-13
OW-22
OW-16
OW-11
OW-9
TEMPORARY
OIL/WATER
SEPARATOR
FORMER
LOCATION OF
OIL/WATER
SEPARATOR
MANUFACTURING
BUILDING
BURT'S



LEGEND:

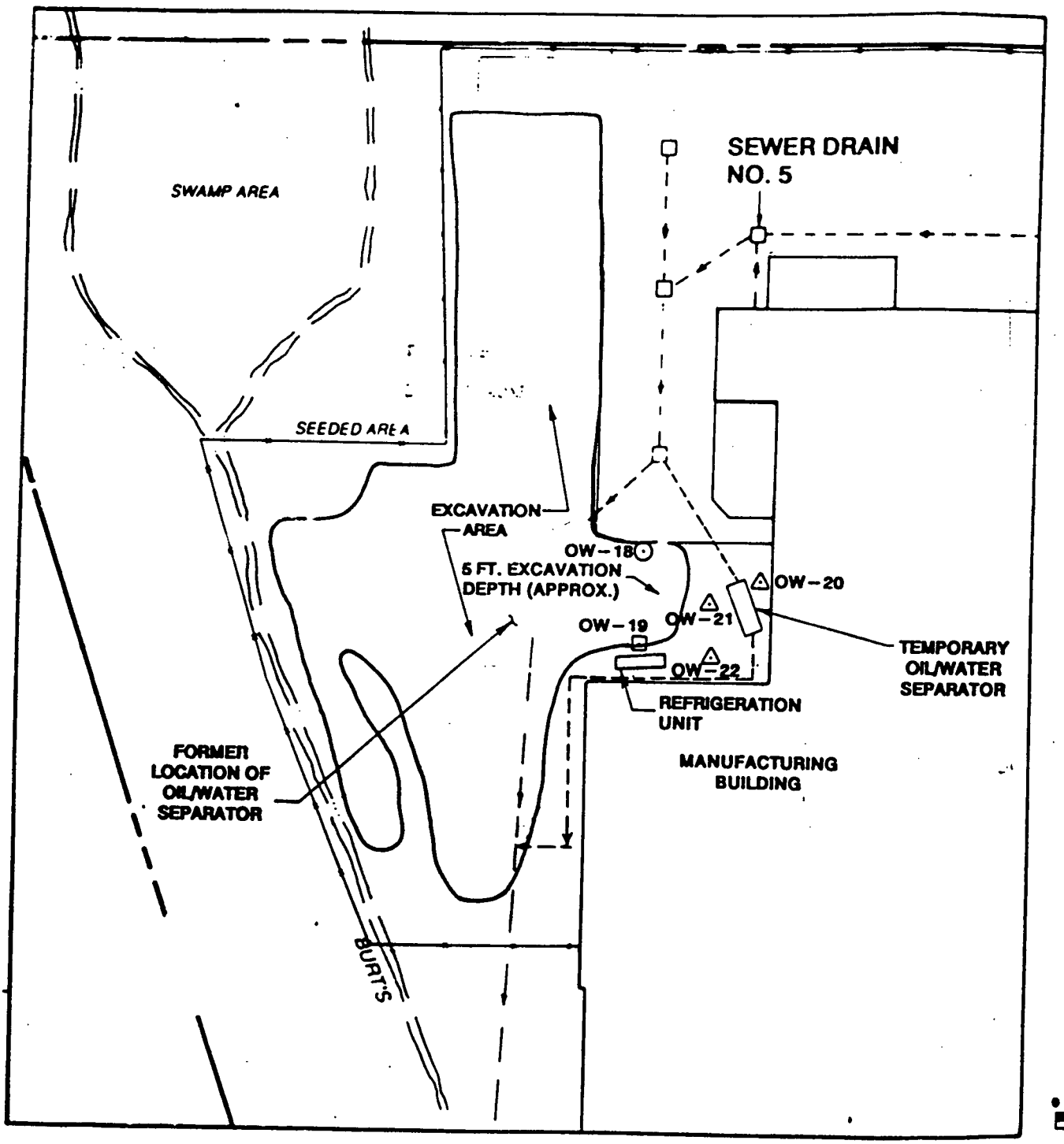
- □ SPILL PREVENTION/SEWER DRAINS
- △ SUB–SURFACE SOIL SAMPLE LOCATION (APPROXIMATE)
- ⊡ SIDEWALL POST–EXCAVATION SOIL SAMPLE LOCATION (APPROXIMATE)
- ⊙ BASE POST–EXCAVATION SOIL SAMPLE LOCATION (APPROXIMATE)

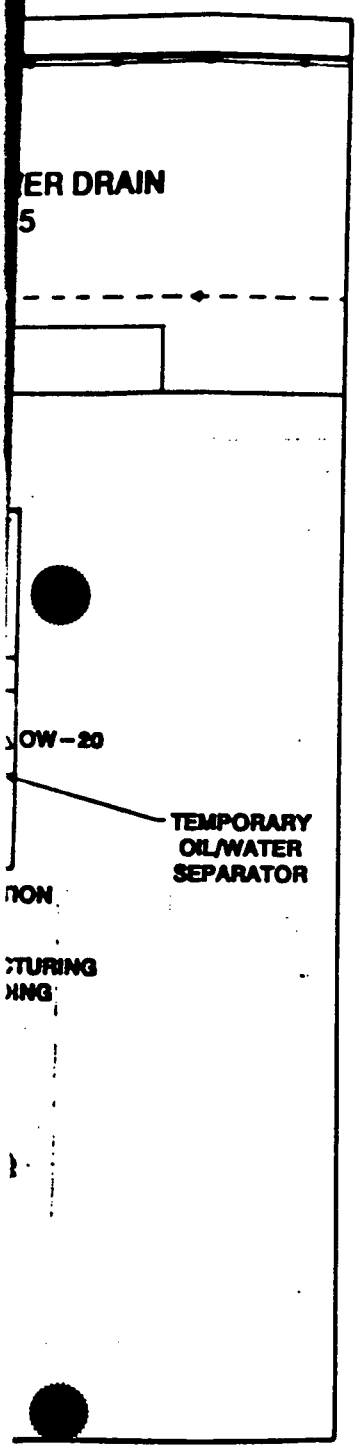


PHASE I OIL/WATER SEPARATOR SOIL SAMPLE LOCATIONS
ESSEX SPECIALTY PRODUCTS, INC.
SAYREVILLE, NEW JERSEY
ECRA CASE NO. 88904

WOODWARD–CLYDE CONSULTANTS
CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS
WAYNE, NEW JERSEY

DR. BY:	KJF	SCALE:	AS SHOWN	PROJ. NO.:	90X4293
CK'D BY:	CWT	DATE:	14 JUL 1992	FIG. NO:	7


SEWER DRAIN
NO. 5
SWAMP AREA
SEEDED AREA
EXCAVATION
AREA
OW-18
5 FT. EXCAVATION
DEPTH (APPROX.)
OW-20
OW-21
OW-19
OW-22
TEMPORARY
OIL/WATER
SEPARATOR
REFRIGERATION
UNIT
MANUFACTURING
BUILDING
FORMER
LOCATION OF
OIL/WATER
SEPARATOR
BURT'S



LEGEND:

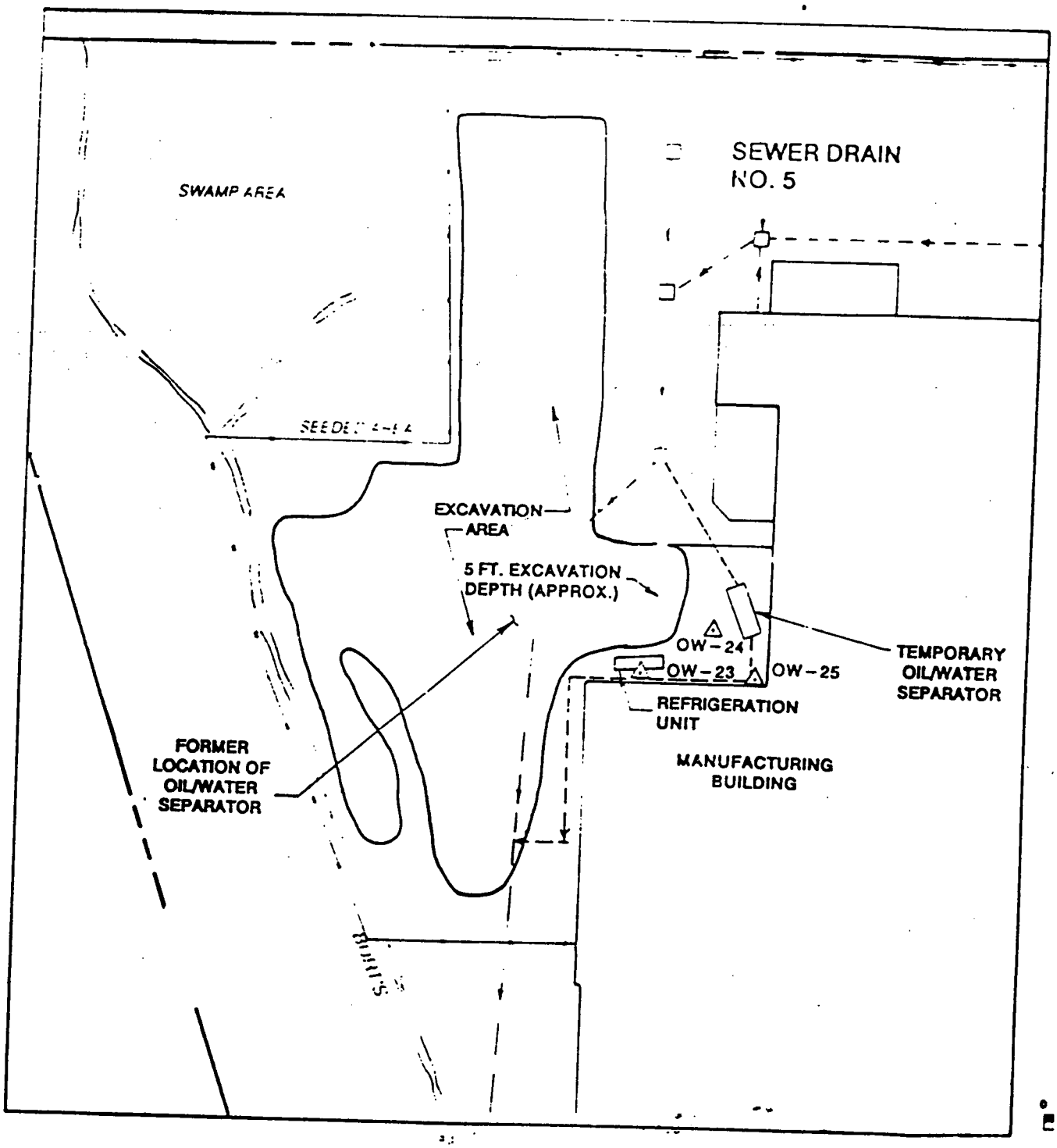
- SPILL PREVENTION/SEWER DRAINS
- SUB-SURFACE SOIL SAMPLE LOCATION (APPROXIMATE)
- SIDEWALL POST-EXCAVATION SOIL SAMPLE LOCATION (APPROXIMATE)
- BASE POST-EXCAVATION SOIL SAMPLE LOCATION (APPROXIMATE)

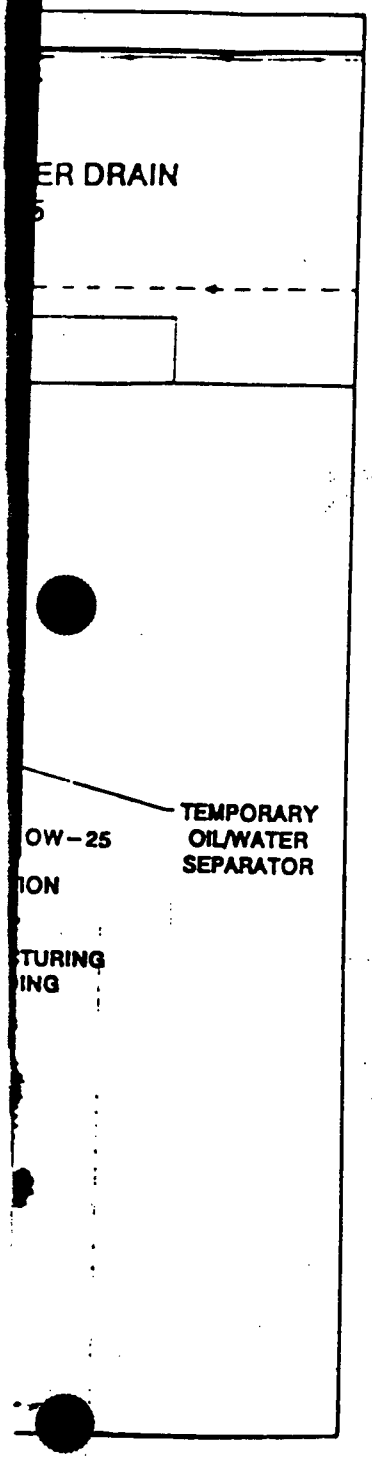
0 40 80 FT
SCALE

PHASE II OIL/WATER SEPARATOR SOIL SAMPLE LOCATIONS
ESSEX SPECIALTY PRODUCTS, INC.
SAYREVILLE, NEW JERSEY
ECRA CASE NO. 88904

WOODWARD-CLYDE CONSULTANTS
CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS
WAYNE, NEW JERSEY

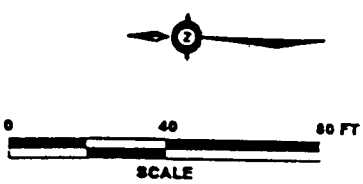
DR. BY:	KJF	SCALE:	AS SHOWN	PROJ. NO.:	90X4293
CK'D BY:	CWT	DATE:	14 JUL 1992	FIG. NO:	8


SEWER DRAIN
NO. 5
SWAMP AREA
EXCAVATION
AREA
5 FT. EXCAVATION
DEPTH (APPROX.)
OW-24
OW-23
OW-25
TEMPORARY
OIL/WATER
SEPARATOR
REFRIGERATION
UNIT
MANUFACTURING
BUILDING
FORMER
LOCATION OF
OIL/WATER
SEPARATOR



LEGEND:

- ☐ SPILL PREVENTION/ SEWER DRAINS
- △ SUB-SURFACE SOIL SAMPLE LOCATION (APPROXIMATE)



PHASE III OIL/WATER SEPARATOR SOIL SAMPLE LOCATIONS
ESSEX SPECIALTY PRODUCTS, INC.
SAYREVILLE, NEW JERSEY
ECRA CASE NO. 88904

WOODWARD-CLYDE CONSULTANTS
CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS
WAYNE, NEW JERSEY

DR. BY:	KJF	SCALE:	AS SHOWN	PROJ. NO.:	90X4293
CK'D BY:	CWT	DATE:	14 JUL 1992	FIG. NO:	9

APPENDIX A

TABLE 4-2
ESSEX CHEMICAL COMPANY
SAYREVILLE SPECIALTY PRODUCTS FACILITY, SAYREVILLE, NJ
SOIL SAMPLE ANALYSES

ERM Traffic Number	12042	12043	11499	11539
Sample Location	P-1	P-2	P-3	P-4
Sample Date	1/17/89	1/17/89	1/17/89	1/17/89
Petroleum Hydrocarbon-mg/kg	ND	1460	ND	2200
Volatile Organic Compounds-µg/kg			ND	
Base/Neutral-Extractables-µg/kg	ND	ND		ND
TENTATIVELY IDENTIFIED SEMIVOLATILE ORGANIC COMPOUNDS				
NON TARGET COMPOUNDS-µg/kg				
Ethyl, methyl benzene isomer		21.45		
Indene isomer		9.72		
Dimethyl, dihydro 1-H Indene isomer		6.51		
Methyl, ethyl 1-dimethyl benzene isomer		9.80		
Benzene, (1-ethyl-2-propenyl)- CAS#019947-22-6		6.38		
Dihydro, dimethyl 1H-Indene isomer		17.18		
Dimethyl, methyl, ethyl benzene isomer		9.03		
Substituted 1H-Indene		60		
Substituted benzene isomer		5.34		
Unknown ketone		7.16		
Thio-butyric acid ester isomer		5.59		
Methyl benzene isomer		6.18		
Long chain alkane				121.27
Substituted long chain alkane				5.32
Substituted alkane				12.7
Long chain hydrocarbon				27.3
Quaterphenyl isomer				6.61
Dihydro, methyl benzene isomer				32.1
Quaterphenyl isomer				13.1
Benzene dicarboxylic acid isomer				87.56
Unknown alkane				21.8
Unknown ketone				25.3
Substituted anthracene				4.76
Unknown				5.72

Note:
ND - None Detected
Petroleum Hydrocarbon Detection Limit-25 mg/kg
Base/Neutral Detection Unit-980µg/kg
Volatile Detection Unit; range 50-500 depending on compound

DOW-Sayerville
October 1989 Soil Sample Analysis Results
(all concentrations reported on a dry weight basis)

Sample Location	R-1A	R-2A	R-3A	R-3B	R-3C	R-4A	R-4B	R-4C
Sample Date	10/27/89	10/27/89	10/27/89	10/27/89	10/27/89	10/27/89	10/27/89	10/27/89
GRS Traffic Report No.	15633	15634	15635	15636	15637	15638	15639	15640
Laboratory I.D. No.	4687	4688	4689	4690	4691	4692	4693	4694
Concentration Units	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg
Total Solids (%)	22	21	83	82	72	84	79	77
Base Neutral Organic Compounds								
Phenanthrene	210 J	1800 J		55 J				
Pyrene	200 J	1800 J						
Bis(2-ethylhexyl) phthalate	1900000	1900 J	6500	22000	200 J	79000	8900 J	1100
Di-n-octyl phthalate	3100			300 J				
Acenaphthylene		200 J						
Phenanthrene		900 J						
Anthracene		190 J						
Benzo(a)anthracene		730 J						
Chrysene		1300 J						
Benzo(b)fluoranthene		1600 J						
Benzo(k)fluoranthene		360 J						
Benzo(a)pyrene		1100 J						
Indeno(1,2,3-cd)pyrene		900 J						
Dibenzo(a,h)anthracene		820 J						
Di-n-butyl phthalate								
Base Neutral Tentatively								
Identified Compounds								
Total Unknowns	74000 J	67000 J	3800 J	81 J	22000 J	9800 J	26000 J	9400 J
Total Unknown Hydrocarbons	9700 J	3100 J	J	110 J	1900 J	1300 J	J	730 J
Total Unknown PCB's				3800 J		J		
Total Unknown Aromatic Hydrocarbons								

Qualifier Codes:-
B - This result is qualitatively invalid since this compound was also detected in a blank at a similar concentration.
J - This result is a quantitative estimate.
NA - Not analyzed for this parameter.
ND - none detected.
Note - No concentration is entered for compounds which were not detected.

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QA/QC MANAGER DATE

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DOW-Sayerville
October 1989 Soil Sample Analysis Results
(all concentrations reported on a dry weight basis)

Sample Location	R-5A	R-5B	R-6A	R-6B	R-6C	R-7A	R-7ADUP	R-7B
Sample Date	10/27/89	10/27/89	10/27/89	10/27/89	10/27/89	10/27/89	10/27/89	10/27/89
ERM Traffic Report No.	15641	15642	15643	15644	15645	15649	15652	15650
Laboratory I.D. No.	4695	4696	4697	4698	4699	4703	4706	4704
Concentration Units	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg
Total Solids (%)	82	89	86	51	76	90	90	24
Base Neutral Organic Compounds								
Fluoranthene							180 J	
Pyrene							170 J	250 J
Bis(2-ethylhexyl) phthalate	210 J	1500	1800	410 J	230 J	320 J		
Di-n-octyl phthalate								
Acenaphthylene								
Phenanthrene								
Anthracene							170 J	640 J
Benzo(a)anthracene								
Chrysene								
Benzo(b)fluoranthene								
Benzo(k)fluoranthene								
Benzo(a)pyrene								
Indeno(1,2,3-cd)pyrene				150 J				
Benzo(g,h,i)perylene								
Di-n-butyl phthalate								
Base Neutral Tentatively Identified Compounds								
Total Unknowns	1300 J	1300 J	5900 J	23000 J	5300 J	370 J	150 J	
Total Unknown Hydrocarbons	600 J	74 J	540 J	44000 J	620 J	480 J		
Total Unknown PCB's								
Total Unknown Aromatic Hydrocarbons				26000 J	1600 J			

Qualifier Codes:
B - This result is qualitatively invalid since this compound was also detected in a blank at a similar concentration.
J - This result is a quantitative estimate.
NA - Not analyzed for this parameter.
ND - none detected.
Note - No concentration is entered for compounds which were not detected.

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QA/QC MANAGER DATE

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DOW-Sayerville
October 1989 Soil Sample Analysis Results
(all concentrations reported on a dry weight basis)

Sample Location	R-7C	R-8A	R-8B	R-8C	R-9A	EB-1	TB-1
Sample Date	10/27/89	10/27/89	10/27/89	10/27/89	10/27/89	10/27/89	10/27/89
ERM Traffic Report No.	15651	15646	15647	15648	15653	15654	15655
Laboratory I.D. No.	4705	4700	4701	4702	4707	4708	4709
Concentration Units	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/L	µg/L
Total Solids (%)	79	85	57	71	91	NA	NA
Base Neutral Organic Compounds	ND						
Fluoranthene					190 J		
Pyrene		82 J			140 J		
Bis(2-ethylhexyl) phthalate			29000	31000	310 J		
Di-n-octyl phthalate			310 J	1800			
Acenaphthylene							
Phenanthrene		160 J			94 J		
Anthracene							
Benzo(a)anthracene							
Chrysene					110 J		
Benzo(b)fluoranthene					70 J		
Benzo(k)fluoranthene							
Benzo(a)pyrene					76 J		
Indeno(1,2,3-cd)pyrene					86 J		
Benzo(g,h,i)perylene					140 J		
Di-n-butyl phthalate							
Base Neutral Tentatively Identified Compounds						ND	ND
Total Unknowns	3600 J	13000 J	16000 J	16000 J	370 J		
Total Unknown Hydrocarbons	170 J	1800 J	2200 J		510 J		
Total Unknown PCB's							
Total Unknown Aromatic Hydrocarbons	1200 J		15000 J	1900 J			

Qualifier Codes:
B - This result is qualitatively invalid since this compound was also detected in a blank at a similar concentration.
J - This result is a quantitative estimate.
NA - Not analyzed for this parameter.
ND - none detected.
Note - No concentration is entered for compounds which were not detected.

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David R. Bly 2-15-90
QA/QC MANAGER DATE

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DOW-Saperville
December 1989 Soil Sample Analysis Results
(all concentrations reported on a dry weight basis)

Sample Location	DR-10	DR-11	DR-12	DR-13A	DR-13B	DR-14A
Sample Date	12/7/89	12/7/89	12/7/89	12/7/89	12/7/89	12/7/89
EPA Traffic Report No.	24752	24752	24752	24752	24752	24752
Laboratory I.D. No.	5000	5000	5000	5000	5000	5000
Concentration Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Total Solids (%)	13	79	15	25	79	87
Volatile Organic Compounds	NA	NA	NA	NA	NA	NA
Methylene Chloride						
Chloroform						
Base Neutral Organic Compounds						
Naphthalene						
Acenaphthylene	200 J		740 J	160 J		
Acenaphthene	400 J		200 J			
Fluorene		140 J	200 J	10000 J	25 J	270 J
Phenanthrene			450 J	170 J		
Anthracene			270 J	150 J		
Fluoranthene			200 J	190 J		
Pyrene			200 J			
Benzo(a)anthracene			240 J	110 J		
Chrysene						
Bis(2-ethylhexyl) phthalate						
Benzo(b)fluoranthene						
Benzo(k)fluoranthene						
Benzo(a)pyrene						
Indeno(1,2,3-cd)pyrene						
Dibenzo(a,h)anthracene						
Benzo(g,h,i)perylene						
Di-n-octyl phthalate						
Di-n-butyl phthalate						
Base Neutral Tentatively Identified Compounds						
Unknown						
Dimethyl benzene isomer						
Methyl-1-propene						
Phenol					3100 J	
Total Unknown	11000 J		22000 J			
Total Unknown Independent	22100 J	2220 J	10000 J	37400 J	17430 J	4710 J
2-Propanone-1-(n-2-pro	10700 J				700 J	420 J
naphthalene-1,2,3,4-tetrahydro-1,6-dimethyl-4-(1-methylethyl)	9000 J		20000 J	8000 J	1300 J	400 J
benzo, dimethyl			4000 J			
benzothiazole, mtl			3000 J			
Pentanone				2000 J		
Benzoic Methyl				2100 J		
Dimethyl benzene isomer				1100 J		100 J

Qualifier Codes:
B - This result is qualitatively limited since this compound was also detected in a blank at a similar concentration.
J - This result is a quantitative estimate.
NA - Not analyzed for this parameter.
ND - none detected.
Note - No concentration is entered for compounds which were not detected.

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David R. Blye 2-15-90
QA/QC MANAGER DATE

606

DOW-Sayerville
December 1989 Soil Sample Analysis Results
(all concentrations reported on a dry weight basis)

Sample Location	DR-14B	DR-14C	DR-15A**	DTB-2	DEB-2
Sample Date	12/7/89	12/7/89	12/7/89	12/7/89	12/7/89
ERM Traffic Report No.	24763	24764	24762	24749	24750
Laboratory I.D. No.	5610	5611	5612	5601	5602
Concentration Units	ug/Kg	ug/Kg	ug/Kg	ug/L	ug/L
Total Solids (%)	66	67	68	NA	NA
Volatile Organic Compounds	NA	NA	NA		NA
Methylene Chloride				12 B	
Chloroform				3 B	
Base Neutral Organic Compounds				NA	ND
Fluoranthene	330 J		88 J		
Benzo(a)pyrene		280 J			
Bis(2-ethylhexyl)phthalate	84000 J	24000 J	1400 J		
Phenanthrene	210 J		40 J		
Pyrene	270 J		56 J		
Chrysene	170 J		47 J		
Benzo(b)fluoranthene	120 J		42 J		
Benzo(k)fluoranthene	180 J		53 J		
Acenaphthylene					
Fluorene					
Anthracene					
Butylbenzyl phthalate		61 J			
Benzo(a)anthracene	67 J				
Indeno(1,2,3-cd)pyrene					
Dibenz(a,h)anthracene					
Benzo(a,h,i)perylene					
Di-n-octyl phthalate	1000	100 J			
Di-n-butyl phthalate		300 B	72 B		
Base Neutral Tentatively Identified Compounds				NA	
Ethylbenzene					0.4 J
Dimethyl benzene isomer		2000 J			30 J
ethylmethyl benzene					21 J
Chlorate					
Total Unknowns	15000 J	37000 J	7000 J		
Total Unknown Hydrocarbons	3500 J	640 J	850 J		
D-Friedoolean-14-ea-3-one	4700 J	800 J	900 J		
naphthalene,1,2,3,4-tetrahydro-1,6-dimethyl-4-(1-methylethyl)					
gamma sitosterol					
hexadecanoic acid					
hexadecane					
unknown Aldehyde					
trimethyl benzene isomer		340 J			

Qualifier Codes:
B - This result is qualitatively invalid since this compound was also detected in a blank at a similar concentration.
J - This result is a quantitative estimate.
NA - Not analyzed for this parameter.
ND - none detected.
Note - No concentration is entered for compounds which were not detected.
** - Sample is a blind duplicate of DR-14A.

APPROVED FOR RELEASE BY QUALITY ASSURANCE
David R. Bly 2-15-90
QA/QC MANAGER DATE

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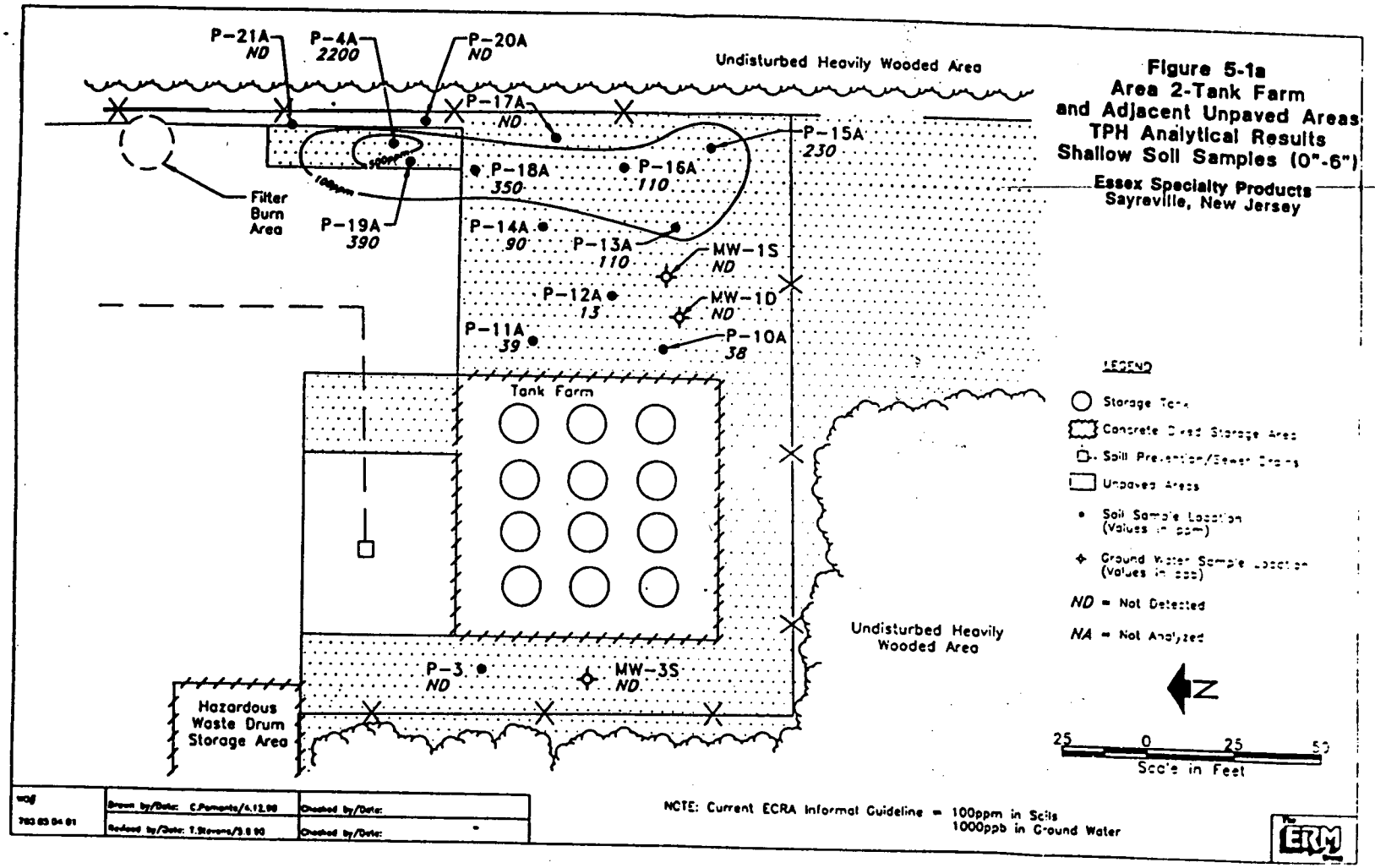


Figure 5-1a
Area 2-Tank Farm
and Adjacent Unpaved Areas
TPH Analytical Results
Shallow Soil Samples (0"-6")

Essex Specialty Products
Sayreville, New Jersey

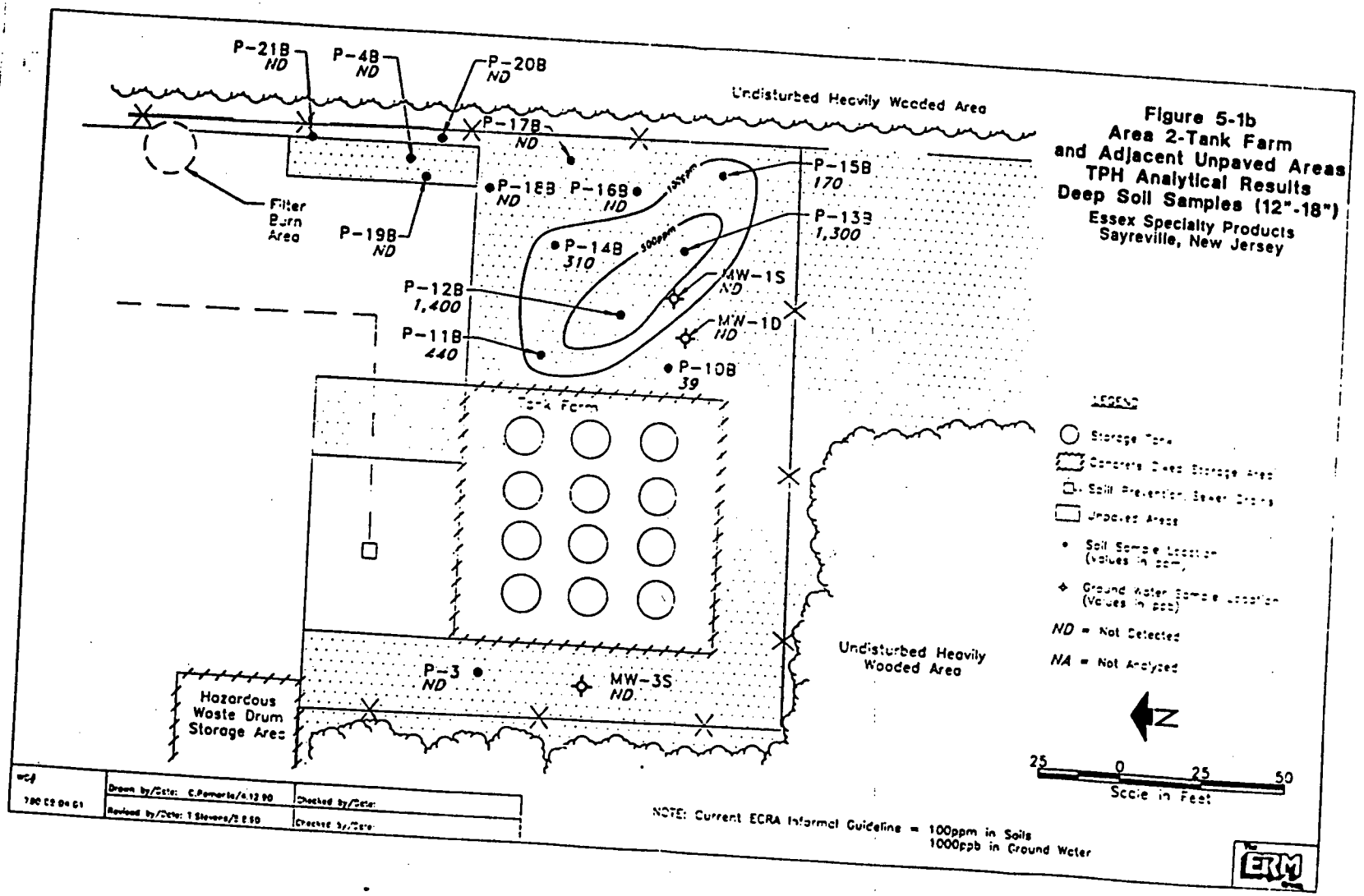


Figure 5-1b
Area 2-Tank Farm and Adjacent Unpaved Areas TPH Analytical Results Deep Soil Samples (12"-18")
Essex Specialty Products Sayreville, New Jersey

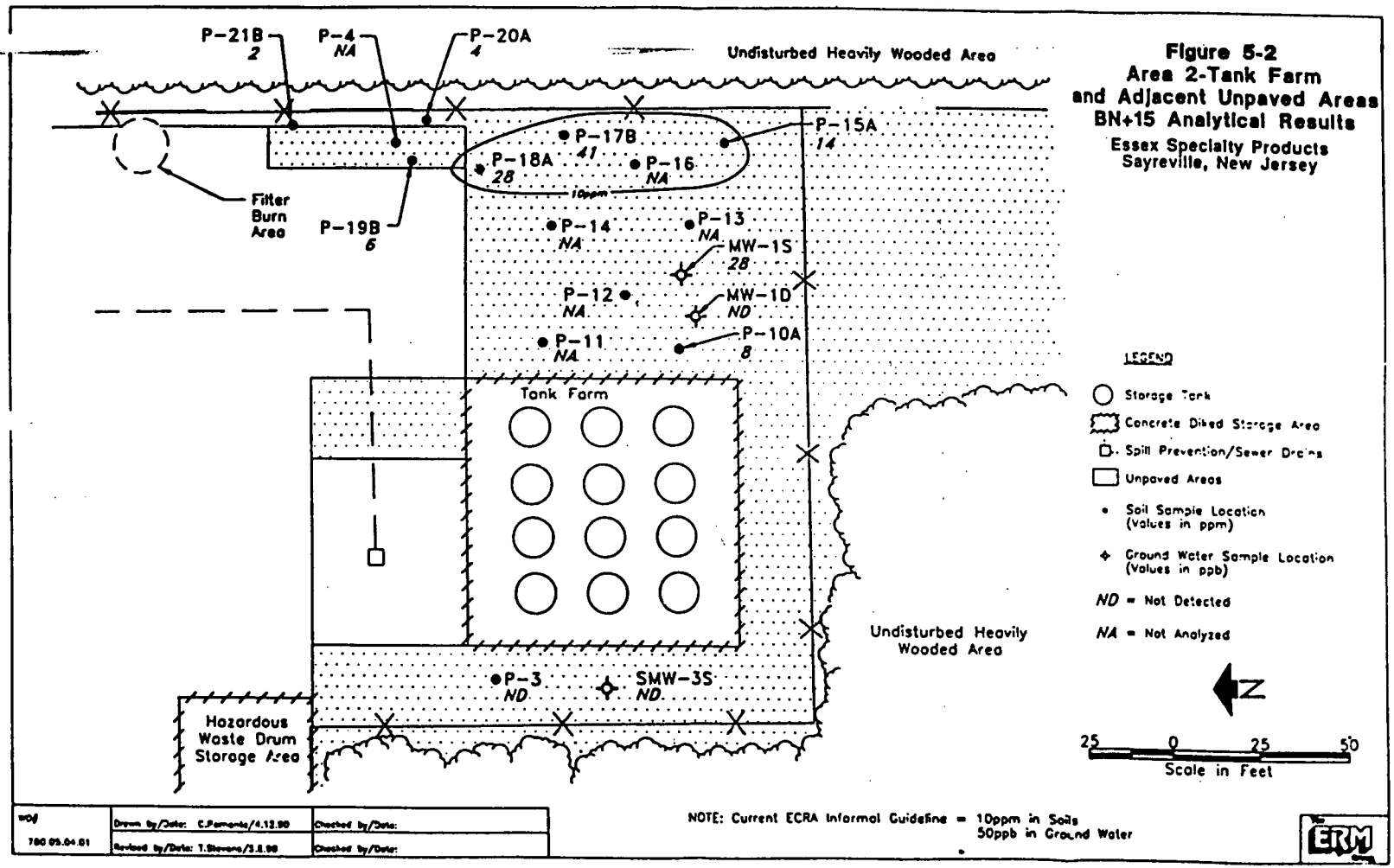
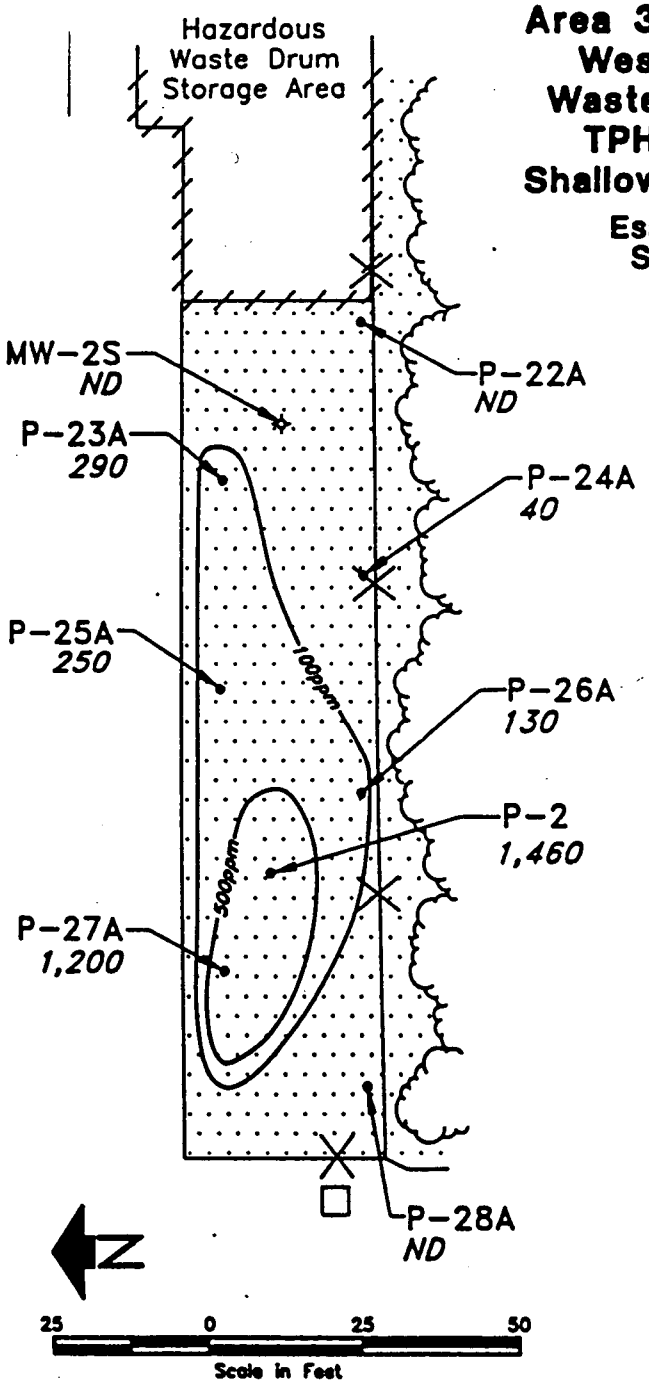


Figure 5-2
Area 2-Tank Farm and Adjacent Unpaved Areas BN+15 Analytical Results
Essex Specialty Products
Sayreville, New Jersey

WO# 780 05.04.01	Drawn by/Date: C.Pamonte/4.12.90	Checked by/Date:
	Revised by/Date: T.Stevens/3.8.90	Checked by/Date:

Figure 5-3
Area 3-Unpaved Area to the West of the Hazardous Waste Drum Storage Area TPH Analytical Results Shallow Soil Samples (0"-6")

Essex Specialty Products
Sayreville, New Jersey



LEGEND

- Concrete Diked Storage Area
- Spill Prevention/Sewer Drains
- Unpaved Areas
- Soil Sample Location (Values in ppm)
- Ground Water Sample Location (Values in ppb)

NOTE: Current ECRA Action Guideline = 100ppm for Soils, 1000ppb in Ground Water

WO#	Drawn by / Date:	Checked by / Date:	
780.05.04.01	C.Pomonte/4.12.90		ERM
	Revised by / Date: T.Stevens/5.08.90	Checked by / Date:	

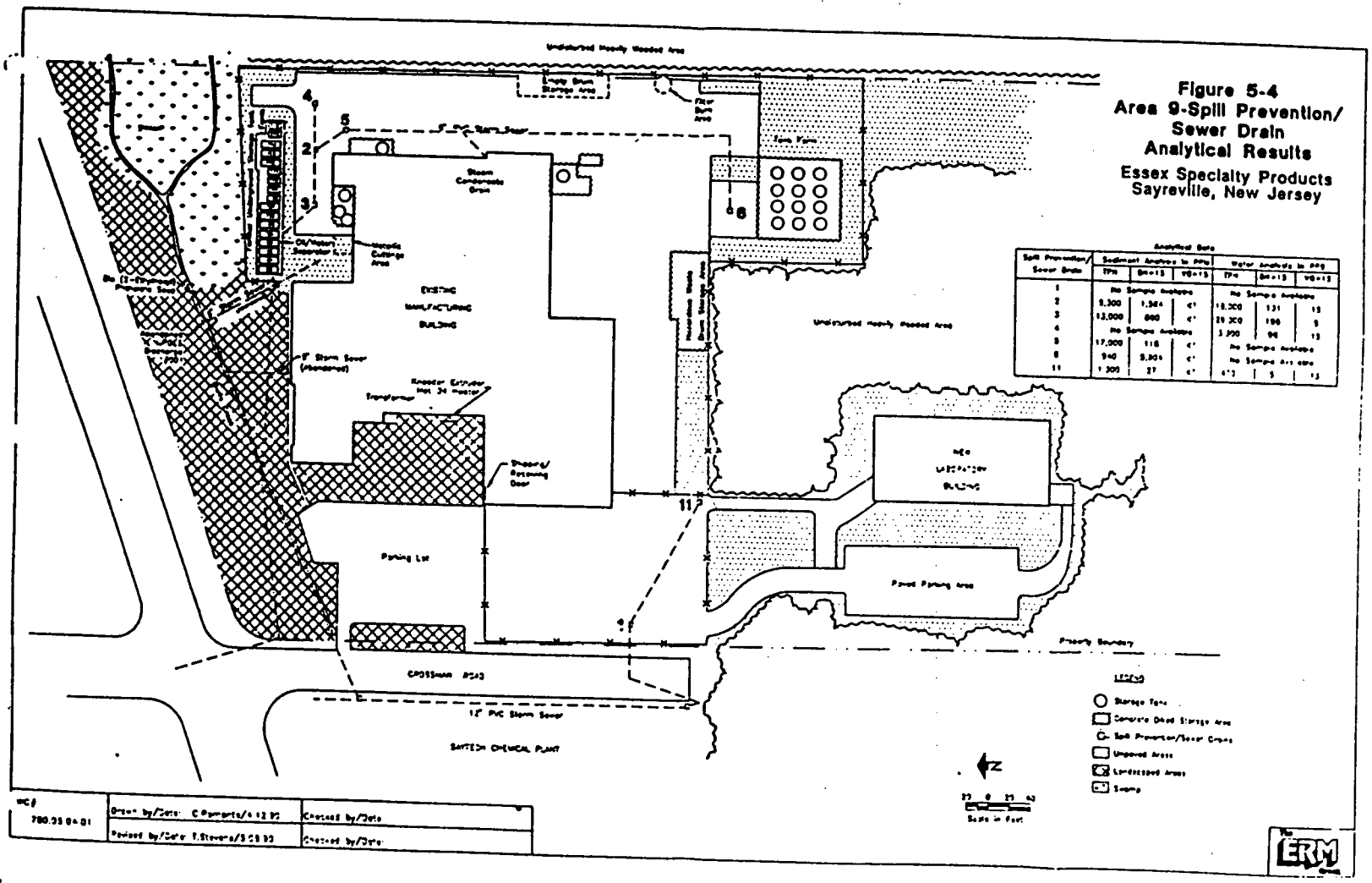


Figure 5-4
Area 9-Spill Prevention/ Sewer Drain Analytical Results
Essex Specialty Products
Sayreville, New Jersey

Analytical Data

Spill Prevention/ Sewer Drain	Sediment Analysis in PPM			Water Analysis in PPB		
	TPH	BH+15	VB+15	TPH	BH+15	VB+15
1	No Sample Available			No Sample Available		
2	5,300	1,564	<1	18,300	131	15
3	13,000	880	<1	29,300	196	5
4	No Sample Available			3,300	96	15
5	17,000	118	<1	No Sample Available		
6	940	5,304	<1	No Sample Available		
11	1,300	27	<1	413	5	13

Stream Sediment Sampling

The following is Environmental Resource Management's account of the Stream Sediment Sampling Event: Sediment Sampling of Burt's Creek was performed in accordance with the method outlined in the Conditional Approval Letter, with the following exception. The NJDEP requested that creek sediment be sampled with an appropriate creek sampling device. ERM personnel attempted to use an Eckman dredge, a standard underwater sediment sampling device. Burt's Creek is a narrow stream with an irregular bank and abundant leaf and organic matter. Repeated efforts to use the Eckman dredge resulted in significant agitation of the stream bottom, and little or no sample collection. Therefore, sediment samples from Burt's Creek were collected using a stainless steel spoon. Leaf and organic material were carefully removed from each sample location, and the upper 1-2 inches of sediment was sampled with a minimum of sediment and water agitation. The furthest downstream sample was collected first and the furthest upstream sample was collected last. Samples were transferred directly into sample jars. Each sample was screened with an Organic Vapor Analyzer (OVA). Sampling equipment was decontaminated between samples using the decontamination procedures outlined below:

All non-disposable sampling equipment used at the Essex facility, including split-spoon samplers, hand bucket augers, trowels, water level meters, bailers, etc. were decontaminated prior to and between each use according to the following procedure:

1. Non-phosphate detergent rinse;
2. Tap or distilled water rinse;
3. 10 percent nitric acid rinse;
4. Distilled water rinse;
5. Pesticide-grade acetone application;
6. Air dry;
7. Final distilled/deionized water rinse.

Woodward-Clyde Consultants was not provided with the Tier II analytical deliverables associated with the Stream Sediment Event, however, the sediment sampling results, as shown in ERM Plate 4, were provided by ERM Inc. in their May 1990 ECRA report. No subsequent stream sediment samples were taken.

State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION
TRENTON

Division of Coastal Resources

Please address reply to:
CN 401
Trenton, N.J. 08625-0401

Woodward-Clyde Consultants
Attn: Robert Gaibrois
201 Willowbrook Blvd.
P.O. Box 290
Wayne, NJ 07470

FEB 0 7 1991

Re: Authorization for Freshwater Wetlands Statewide General Permit, Waiver of Transition Area for Access, and Mitigation Plan Approval
Applicant: Essex Specialty Products
Permit #1219-90-0009.2-GP Statute N.J.S.A. 13:9B-1
Effective date FEB 0 7 1991. Expiration date FEB 0 7 1996
Block 251 and 366A; Lots 2 and 2
Borough of Sayreville, Middlesex County
Lower Raritan Watershed; Raritan Drainage Basin
Nearest stream or waterway: Burt's Creek

Dear Mr. Gaibrois:

The Bureau of Inland Regulation has reviewed the referenced application for a Freshwater Wetlands Statewide General Permit authorization pursuant to the requirements of Freshwater Wetlands Protection Act Rules at N.J.A.C. 7:7A. Based on plans entitled:

1. "Site Plan Details," consisting of 1 sheet, dated January 7, 1991, with no revisions, and prepared by Woodward Clyde Consultants, and

2. "Generalized Subsurface Section," consisting of 1 sheet, dated December 14, 1990 with no revisions and prepared by Woodward Clyde Consultants, the proposed activities are authorized by Freshwater Wetlands Statewide General Permit #4 which allows activities, including work, discharges, and the construction or placement of structures, for the investigation, cleanup and removal of hazardous substances as defined by or pursuant to the Spill Compensation and Control Act, N.J.S.A. 58:19-23.11 et seq., which are taken, authorized or otherwise approved by the Department. This letter of authorization to conduct a regulated activity in a wetland or open water includes the Division's approval of a Water Quality Certificate for these activities.

Project description

The authorized activity involves the temporary loss of 0.358 of an acre of wetlands and State open waters for the excavation of contaminated soils for an ECRA clean up. Any additional disturbance of freshwater wetlands or State open waters shall be considered a violation of the Freshwater Wetlands Protection Act unless a permit is obtained prior to the start of the disturbance from the Bureau of Inland Regulation.

Mitigation Plan Approval

This permit shall also serve as approval of the proposed mitigation plan submitted by the applicant and is shown on the plan entitled, "Generalized Subsurface Section," consisting of 1 sheet, dated December 14, 1990 and prepared by Woodward Clyde Consultants and described in the submitted materials with the General permit Application. Mitigation shall consist of replacement at a ratio of one acre restored for one acre impacted.

Permit Conditions

The activities allowed by this authorization shall comply with the following conditions. Failure to comply with these conditions shall constitute a violation of the Freshwater Wetlands Protection Act (N.J.S.A. 13:9B-1 et.seq.)

Special conditions

1) Impacts to wetlands and State open waters shall not exceed 0.358 of acre. The wetlands mitigation site shall be seeded as soon as possible following placment of loam, in order the preclude erosion and sedimentation into Burt's Creek.

2) This permit is conditioned upon the Department receiving a finalized and signed copy of the attached draft Declaration of Restriction permanently preserving the mitigation area. This must include a metes and bound description of the mitigation area (an example is attached).

3) Essex Specialty Products shall be responsible for success of the wetlands mitigation, and shall monitor and maintain the mitigation area to ensure eighty-five (85) percent survival and eighty-five (85) percent area coverage of the mitigation plantings for at least three years after planting. Two site visits a year are required for the purpose of recording site progress. Data shall be collected and a written report with photographic support shall be

submitted to the Division after each site visit by December 31 each year.

4) The discharge of dredged or fill material shall consist of suitable material free from toxic pollutants (see Section 307 of the Federal Act) in toxic amounts.

In addition to the above conditions and the conditions noted at N.J.A.C. 7:7A 9.2 and 9.3, the following general conditions must be met for the activity authorized under this Statewide General Permit:

General conditions:

1. This permit is revocable, or subject to modification or change at any time, when in the judgement of the Department of Environmental Protection of the State of New Jersey, such revocation, modification or change shall be necessary.

2. The issuance of this permit shall not be deemed to affect in any way other actions by the Department on any future application.

3. The activities shown by plans and/or other engineering data, which are this day approved, subject to the conditions herewith established, shall be constructed and/or executed in conformity with such plans and/or engineering data and the said conditions.

4. No change in plans or specifications shall be made except with the prior written permission of the Department.

5. The granting of this authorization shall not be construed to in any way affect the title or ownership of the property, and shall not make the Department or the State a party in any suit or question of ownership of the property.

6. This authorization is not valid and no work shall be undertaken until such time as all other required approvals and permits have been obtained.

7. A copy of this authorization shall be kept at the work site and shall be exhibited upon request of any person.

Waiver of Transition Area

The Bureau of Inland Regulation has determined that the wetlands affected by this permit authorization are of intermediate resource value. The resource value classification is the basis for determining the standard

width of transition area required for the wetlands affected by this permit authorization. The authorization of activities under this Freshwater Wetlands Statewide General Permit includes a transition area waiver. This waiver allows encroachment only in that portion of the transition area that has been determined by the Division to be necessary to accomplish the authorized activities.

Any additional prohibited activities conducted within the standard transition area on-site shall require a separate transition area waiver from the Division. Prohibited activities within a transition area are defined at N.J.A.C. 7:7A-6.2(a).

Duration of Authorization/Notification of Work

This authorization for a Freshwater Wetlands Statewide General Permit is valid for five years from the effective date noted in this letter. The permittee shall allow an authorized Division representative the right to inspect the construction site. The permittee will notify, in writing, the Bureau of Inland Regulation of Bureau of Enforcement 7 days prior to commencement of work authorized by this letter.

Appeal of Decision

The applicant or other affected party, if aggrieved by this decision to authorize the activities specified in this correspondence, may request a hearing on this decision by submitting a written request for an administrative hearing to the Commissioner of the Department of Environmental Protection within 30 days of the date of this decision.

Please find attached a check (#0015037) for $100.00. A portion of the $1,100.00 fee paid by the applicant with its initial request for an Individual Freshwater Wetlands Permit has been applied to your application for Statewide General Permit #4.

If you have any questions regarding this Freshwater Wetlands Statewide General Permit authorization, please contact Chandler Peter of our staff at (609) 633-6754. Please reference the permit number in any communication concerning this action.

Sincerely,

Richard A. Kantor

Richard A. Kantor
Section Chief, Raritan Region
Bureau of Inland Regulation

attachments

cc. U.S. Army Corps of Engineers: New York District
Dr. Susan Halsey, DEP, DCR Planning
Bill Hadsell, Div of Hazardous Waste Management, Clean Up Oversight Section
Borough of Sayreville Planning Board
Borough of Sayreville Construction Official
Borough of Sayreville Clerk
Middlesex County Planning Board

New Jersey Natural Resources Conservation Program

FREEHOLD SOIL CONSERVATION DISTRICT
(Serving Middlesex and Monmouth Counties)
211 FREEHOLD ROAD
MANALAPAN, NEW JERSEY 07726
Tel: (201) 446-2300

02/19/1991

ESSEX SPECIALITY PRODUCTS INC.
1135 BROAD STREET
CLIFTON , NJ 07015

Appl.: 91-0023
Proj.: ESSEX SPECIALITY PRODUCTS
Twp. : SAYREVILLE BOROUGH
Block: 251/366A
Lots : 2/2

Gentlemen:

This shall serve to advise you that the above-mentioned application for certification of a Soil Erosion and Sediment Control plan has been determined to be complete as of February 19, 1991.

Certification of the plan will be recommended at the next board meeting.

Following certification, signed copies will be forwarded to the owner, municipal engineer and the planning board.

Sincerely,

Thomas C. Anderson Jr.
Thomas C. Anderson
District Manager

rh
cc Sayreville Planning Board
Sayreville Const. Official
Sayreville Engineer
Woodward-Clyde Con. R. G. Gaibrois

91-0023.05121

New Jersey Natural Resources Conservation Program

FREEHOLD SOIL CONSERVATION DISTRICT
(Serving Middlesex and Monmouth Counties)
211 FREEHOLD ROAD
MANALAPAN, NEW JERSEY 07726
Tel: (201) 446-2300

CERTIFICATION LETTER 02/25/1991

ESSEX SPECIALITY PRODUCTS INC.
1135 BROAD STREET
CLIFTON , NJ 07015

Appl.: 91-0023
Proj.: ESSEX SPECIALITY PRODUCTS
Twp. : SAYREVILLE BOROUGH
Block: 251/366A Lots : 2/2

Pursuant to N.J.S.A. 4:24-39 et seq., the N.J. Soil Erosion and Sediment Control Act, the Freehold Soil Conservation District hereby grants certification of the Soil Erosion and Sediment Control Plan for the above-captioned project, subject to the following:

1. That the applicant carries out all land disturbance activities in accordance with the Standards for Soil Erosion and Sediment Control in New Jersey, promulgated by the State Soil Conservation Committee.

2. The applicant must notify the District office, by mail, at least 72 hours prior to initial land disturbance.

3. The owner/applicant must obtain a District-issued Report of Compliance prior to any Certificate of Occupancy being issued by the municipality.

4. Changes in the certified plan relating to, or that will affect land disturbance on the site must be submitted to the District office for reevaluation and approval.

5. A copy of the certified plan and a copy of these provisions must be kept on the job site at all times.

This certification is limited to the controls specified in this plan. It is not authorization to engage in proposed land use unless such use has been previously approved by the municipality or other controlling agency. Failure to comply with any of the above conditions may result in the issuance of a Stop Construction Order.

Sincerely,

Thomas C. Anderson

Thomas C. Anderson
District Manager

rh

Distribution: WHITE/1-Applicant CANARY/2-District WHITE/2-Appl. Eng. CANARY/1-Municipal Eng. PINK-Construction Official GOLD-Plan. Board
91-0023.92451

WASTE DISPOSAL SUMMARY

ECRA CASE # 88904

TYPE (hazardous or non-hazardous): hazardous

VOLUME (cubic yards): 1944

LANDFILL (name and state): Wayne Disposal, Michigan

CONTAMINANT: Bis(2-ethylhexyl)phthalate

YEAR OF DISPOSAL: 1991

ambiall:0\90a4293\d042mis.w51

WASTE DISPOSAL SUMMARY

ECRA CASE # 88904

TYPE (hazardous or non-hazardous): hazardous

VOLUME (cubic yards): 270

LANDFILL (name and state): Trade Waste Incineration, Illinois

CONTAMINANT: Bis(2-ethylhexyl)phthalate

YEAR OF DISPOSAL: 1991

ambialk0\90n4293\d042mis.w51

WASTE DISPOSAL SUMMARY

ECRA CASE # 88904

TYPE (hazardous or non-hazardous): hazardous

VOLUME (cubic yards): 18

LANDFILL (name and state): Ensco, Arkansas

CONTAMINANT(S): Bis(2-ethylhexyl)phthalate, toluene, xylene

YEAR OF DISPOSAL: 1991

WASTE DISPOSAL SUMMARY

ECRA CASE # 88904

TYPE (hazardous or non-hazardous): hazardous

VOLUME (cubic yards): 288

LANDFILL (name and state): Trade Waste Incineration, Illinois

CONTAMINANT: Bis(2-ethylhexyl)phthalate

YEAR OF DISPOSAL: 1992

ambialk0\90x4293\d042mis.w51

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Form Approved OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: [illegible] Manifest Document No:
2. Page 1 of 1
Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address: [illegible] Specialty Products, [illegible] Road, South, Saybrook, New Jersey [illegible]
4. Generator's Phone: (201) 727-21[illegible]

A. State Manifest Document Number: MI 2390352
B. State Generator's ID: SAME
C. State Transporter's ID: NJDEPS7110
D. Transporter's Phone: (800) 456-8007
E. State Transporter's ID:
F. Transporter's Phone:
G. State Facility's ID:
H. Facility's Phone: (313) 697-7830

5. Transporter 1 Company Name: Horwith Trucks Incorporated
6. US EPA ID Number: PAD064035819
7. Transporter 2 Company Name:
8. US EPA ID Number:
9. Designated Facility Name and Site Address: [illegible] Disposal, Inc., [illegible] Service Drive, Belleville, MI 48111
10. US EPA ID Number: MI[illegible]

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER)	HM	12. Containers No	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	N/H
a. RQ Hazardous Waste Solid, N.O.S., [contains bis (2-ethylhexyl) phthalate] ORM-E NA9188	X	001	DT	XXX18	YD	U028	
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above: APP# 32591WB; trailer# 341

K. Handling Codes for Wastes Listed Above: a/ / b/ / c/ / d/ /

15. Special Handling Instructions and Additional Information: [illegible] Emergency Response Number (800) 6[illegible]

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 [illegible] generation and select the best waste management [illegible] that is available to me and that I can afford.

Printed/Typed Name: RAYMOND YERGEAU
Signature: Raymond Yergeau
Date: Month Day Year 03 27 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: [illegible]
Signature: [illegible]
Date: Month Day Year 03 27 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space: LWH
102/90

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: [illegible]
Signature: [illegible]
Date: Month Day Year 03 28 91

EPA Form 8700-22 (Rev. 9/88)

PR 8110 Rev. 9/90

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Form Approved OMB No 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: MI 0 0 0 2 5 6 8 7 1 1 5
Manifest Document No: 0 1 0 0 1
2. Page 1 of 1
Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
ESSEX Specialty Products
1 Crossman Road, South Sayreville, New Jersey 08872

4. Generator's Phone (201) 727-2100

5. Transporter 1 Company Name: Hydro Tech Incorporated
6. US EPA ID Number: P I A 0 0 0 6 4 0 3 5 3 1 1 6

7. Transporter 2 Company Name:
8. US EPA ID Number:

9. Designated Facility Name and Site Address
Wyne Chemical, Inc.
4500 N. I-55 Service Drive
Bellville, MI 48111
10. US EPA ID Number: M I D 0 4 8 0 9 0 6 3 3

A. State Manifest Document Number: MI 2390353
B. State Generator's ID: SWE
C. State Transporter's ID: HDEPS7110
D. Transporter's Phone: (800) 456-0007
E. State Transporter's ID:
F. Transporter's Phone:
G. State Facility's ID:
H. Facility's Phone: (313) 697-7830

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER)

	HM	11. US DOT Description	12. Containers No	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	N/H
a.	X	Hazardous Waste Solid, N.O.S., [contains bis (2-ethylhexyl) phthalate] D016 NA9188	001	CT	XXX118	YD	U028	
b.								
c.								
d.								

J. Additional Descriptions for Materials Listed Above
APP# 32591 WB
Trailer #187

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
24 hr Emergency Response Number - (800) 628-6091

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 governmental 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 certify that 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: RAYMIND YERGEAU
Signature: Raymond Yergeau
Date: Month Day Year 03 12 1991

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: NORMAN P RICE
Signature: Norman P Rice
Date: Month Day Year 4 3 1991

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space
LWH
#1021189

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name: Richard Cooper
Signature:
Date: Month Day Year 03 20 91

EPA Form 8700-22 (Rev. 9/88)

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PR 5110 Rev. 8/90

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: [illegible] Manifest Document No: 011002
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law
A. State Manifest Document Number: MI 2390354
B. State Generator's ID:
3. Generator's Name and Mailing Address: Essex Specialty Products, 1 Gross Point Road, South, Belleville, MI 48111
4. Generator's Phone: (313) 697-7830
5. Transporter 1 Company Name: Hamilton Trucks Incorporated — 6. US EPA ID Number: [illegible]
C. State Transporter's ID: NJLEPS7110
D. Transporter's Phone: (000) 456-0007
7. Transporter 2 Company Name — 8. US EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:
9. Designated Facility Name and Site Address: Lyne Disposal, Inc., 4550 N. I-55 Service Drive, Belleville, MI 48111 — 10. US EPA ID Number: 04000090633
G. State Facility's ID:
H. Facility's Phone: (313) 697-7830

GENERATOR

	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER)	12. Containers No	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	N/H
a.	X HM: Hazardous waste solid, n.o.s. (contains bis (2-ethylhexyl) phthalate) UN-E NA9189	01	TK	0018	M	D218	
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above: APP# 32591WB; Trailer# 120

K. Handling Codes for Wastes Listed Above: a/ / ; b/ / ; c/ / ; d/ / ;

15. Special Handling Instructions and Additional Information: In Case of Emergency Contact Lyne (900) 629-6001

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: RAYMOND VERGEZEU — Signature: Raymond Vergezeu — Date: Month Day Year 03 27 91

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: EARL KUNISEZ — Signature: Earl Kunisez — Date: Month Day Year 03 27 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space: LWH 102188

20. Facility Owner or Operator. Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: [illegible] — Signature: [illegible] — Date: Month Day Year 03 28 91

EPA Form 8700-22 (Rev. 9-88) PR 5110 Rev. 9/90

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88

Wayne Disposal Lab TEL No.313-6[illegible]-1532 Jul 23.91 14:56 No.012 P.04

'91 07/23 15:08 ☎ 313 437 7948 Pioneer Micro. 82

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Form Approved. OMB No. 2050-0039 Expires 8-30-91

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UNIFORM HAZARDOUS WASTE MANIFEST

1 Generator's US EPA ID No | Manifest Document No. | 2 Page 1 of 1 | Information in the shaded areas is not required by Federal law

3 Generator's Name and Mailing Address

4 Generator's Phone ( )

5 Transporter 1 Company Name | 6 US EPA ID Number

7 Transporter 2 Company Name | 8 US EPA ID Number

9 Designated Facility Name and Site Address | 10 US EPA ID Number

A. State Manifest Document Number

B. State Generator's ID

C. State Transporter's ID

D. Transporter's Phone

E. State Transporter's ID

F. Transporter's Phone

G. State Facility's ID

H. Facility's Phone

11 US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER)

	HM	12 Containers No	Type	13 Total Quantity	14 Unit Wt/Vol	I. Waste No.	
a							
b							
c							
d							

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above

a/ /
b/ /
c/ /
d/ /

15 Special Handling Instructions and Additional Information

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 | Signature | Date Month Day Year

17 Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date Month Day Year

18 Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date Month Day Year

19 Discrepancy Indication Space

J.L. #1022150

20 Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name | Signature | Date Month Day Year

89

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Form Approved OMB No. 2060-0039 Expires 9-30-91

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. | | | | | | | | | | | | Manifest Document No. 9 7 0 0 4

2. Page 1 of 1

Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
Ford Specialty Products
[illegible], Sayreville, New Jersey 08872

4. Generator's Phone (201) 727-7100

5. Transporter 1 Company Name: [illegible]
6. US EPA ID Number: P A D 0 5 4 0 9 5 8 1 1 9

7. Transporter 2 Company Name:
8. US EPA ID Number:

9. Designated Facility Name and Site Address
[illegible] Disposal Inc.
[illegible] Service Drive
Belleville, MI [illegible]
ID US EPA ID Number: M I D 0 4 8 0 9 0 6 3 3

A. State Manifest Document Number: MI 2390366
B. State Generator's ID: Same
C. State Transporter's ID: NJDEPS/110
D. Transporter's Phone: 800 456-0307
E. State Transporter's ID:
F. Transporter's Phone:
G. State Facility's ID:
H. Facility's Phone: (313) 697-7830

	11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID NUMBER). HM		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	N/H
a.	X	UN Hazardous Waste Solid, N.O.S., (contains bis (2-ethyl hexyl) phthalate) DRUG WEIGHT	0 0 1	D T	X X X 1 8	YD	U 0 2 8	
b.								
c.								
d.								

J. Additional Descriptions for Materials Listed Above
NFE 2001 [illegible] TOWLER PLATE - PLANT TW02731
Trailer 9120

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
24 Hr Emergency Response Number (800) 626-0091

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.

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Printed/Typed Name: RAYMOND V. VERCLAY — Signature: [signature] — Date: Month Day Year 04 10 1991

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: EARL KUNKEL — Signature: Earl Kunkel — Date: Month Day Year 04 10 1991

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date: Month Day Year

19. Discrepancy Indication Space
102282

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: [illegible] — Signature: [signature] — Date: Month Day Year 04 22 91

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PR 8110 Rev. 8/90

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: [illegible] Manifest Document No.: [illegible]
2. Page 1 of

Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address: [illegible] Products, [illegible], Sauk[illegible], New Jersey [illegible]
4. Generator's Phone: (201) [illegible]
5. Transporter 1 Company Name: [illegible]
6. US EPA ID Number: PA[illegible]
7. Transporter 2 Company Name:
8. US EPA ID Number:
9. Designated Facility Name and Site Address: [illegible], Inc., [illegible] Service Drive, Belleville, MI 48111
10. US EPA ID Number: N1D04[illegible]

A. State Manifest Document Number: MI 2390367
B. State Generator's ID: [illegible]
C. State Transporter's ID: [illegible]
D. Transporter's Phone: (800) [illegible]
E. State Transporter's ID:
F. Transporter's Phone:
G. State Facility's ID:
H. Facility's Phone: (313) 697-7830

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	N/H
a. [illegible] Hazardous Waste Solid, N.O.S., [contains bis (2-ethyl hexyl) phthalate] UN-E NA9183		001	DT	XXX18	YD	U028	
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above: [illegible] TRAILER PLATE #-[illegible] TN98139; Trailer #180

K. Handling Codes for Wastes Listed Above: a/ / b/ / c/ / d/ /

15. Special Handling Instructions and Additional Information: Emergency Response Number 24 Hours (800) 628-6091

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.

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Printed/Typed Name: RAYMOND YERGLEAU — Signature: [signature] — Date: Month 04 Day 02 Year 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Crane Dale — Signature: [signature] — Date: Month 04 Day 02 Year 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date: Month Day Year

19. Discrepancy Indication Space: [illegible] #1021283

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: [illegible] — Signature: [signature] — Date: Month 04 Day 02 Year 91

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. M|J|0|0|0|2|5|6|8|7|1|5 Manifest Document No. 8V0106
2. Page 1 of

Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
Essex Specialty Products
1 Cross Streets, South, Somerville, New Jersey 08872
4. Generator's Phone (201) 722-7100

A. State Manifest Document Number MI 2390369
B. State Generator's ID
C. State Transporter's ID NJUEPS7110
D. Transporter's Phone (800) 456-0307
E. State Transporter's ID
F. Transporter's Phone
G. State Facility's ID
H. Facility's Phone (313) 697-7000

5. Transporter 1 Company Name
Hydro Tracs Incorporated
6. US EPA ID Number P|A|D|0|0|6|1|3|8|1|9
7. Transporter 2 Company Name
8. US EPA ID Number

9. Designated Facility Name and Site Address
Safe Disposal, Inc.
5500 N. I-94 Service Drive
Belleville, MI 48111
10. US EPA ID Number M|I|D|0|4|8|0|9|6|6|3|8

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER)

	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	N/H
a.	X Hazardous Waste Solid, N.O.S. [contains bis (2ethyl hexyl) phthalate] ORM-E NA9188	001	DT	XXXX18	YD	U028	
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
APPR 3201 W TRAILER PAYE - PENN 24985
Trailer #102

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 621-6091

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 governmental regulations.

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Printed/Typed Name: RAYMOND YERGEAU
Signature: Raymond Yergeau
Date: Month 04 Day 01 Year 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: HAROLD ZIEGENFUS
Signature: Harold Ziegenfus
Date: Month 04 Day 01 Year 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space
LWH

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
#1021286

Printed/Typed Name:
Signature:
Date: Month 04 Day 29 Year 91

EPA Form 8700-22 (Rev. 9/86)

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. | Manifest Document No.
2. Page 1 of

Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
Esso Specialty Products
P Operated Bldg, South, Secaucus, New Jersey 07094
4. Generator's Phone (201) 727-7000

A. State Manifest Document Number: MI 2390370
B. State Generator's ID: SAME

5. Transporter 1 Company Name: Gordon Trucks Incorporated
6. US EPA ID Number: PA 0 0 6 4 0 3 5 1 9
C. State Transporter's ID: NJEPS/TID
D. Transporter's Phone: (800)456-8807

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address: Hydro Disposal, Inc.
4900 N. I-96 Service Drive
Howell, MI 48111
10. US EPA ID Number: M I D 0 6 8 0 9 0 6 3 3
G. State Facility's ID
H. Facility's Phone: (313) 697-7330

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	N/H
a. NA Hazardous Waste Solid, N.O.S. (contains bis (2-ethylhexyl) phthalate)	X	001	DT	XX1X18	YD	U028	
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
PPI 32001 (a)
Trailer #109

K. Handling Codes for Wastes Listed Above
a/ 1
b/ 1
c/
d/ 1

15. Special Handling Instructions and Additional Information
24 hour Emergency Response Phone (201) 727-7000

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 governmental regulations.

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Printed/Typed Name: Raymond Vergeau
Signature: Raymond Vergeau
Date: Month 04 Day 01 Year 1991

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: A. Fritz
Signature: A. Fritz
Date: Month 04 Day 01 Year 1991

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Date: Month Day Year

19. Discrepancy Indication Space
J.L. #102/284

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Howard Pierce
Signature: Howard Pierce
Date: Month 04 Day 02 Year 91

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PR 6110 Rev. 9/90

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. | Manifest Document No. 47008

2. Page 1 of

Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
Stock Specialty Printed
Lincoln Ave, South, Somerville, New Jersey 08876

4. Generator's Phone (201) 707-2100

5. Transporter 1 Company Name
Industrial Disposal Inc.

6. US EPA ID Number

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
Industrial Disposal Inc.
6949 N. I-96 Service Drive
Belleville, MI 48111

10. US EPA ID Number MID 980 505 988

A. State Manifest Document Number MI 2390371

B. State Generator's ID SWE

C. State Transporter's ID MDPS 110

D. Transporter's Phone (800) 456-0307

E. State Transporter's ID

F. Transporter's Phone

G. State Facility's ID

H. Facility's Phone (313) 697-7630

	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	N/H
a.	NA Hazardous Waste Solid, N.O.S. (contains bis (2-ethyl hexyl) phthalate) UN9189	001	DT	XXXX18	YD	U028	
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
TRN 3201 13
TV40940 P4
Trailer 111

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
24 Hr Emergency Response Number (800) 424-9300

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.

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Printed/Typed Name: RAYMOND YERCELLU | Signature: Raymond Yercellu | Date: Month Day Year 04/21/91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: David Falk | Signature: David Falk | Date: Month Day Year 04/21/91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Date: Month Day Year

19. Discrepancy Indication Space
O.K.

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
102324
Printed/Typed Name: Hurl Cook | Signature: Hurl Cook | Date: Month Day Year 04/22/91

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Form Approved OMB No. 2050-0039 Expires 8-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: [illegible] Manifest Document No: [illegible]

2. Page 1 of 1

Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address: [illegible], Inc., [illegible], Saint Louis, Mo. [illegible]

4. Generator's Phone: [illegible]

5. Transporter 1 Company Name: [illegible]

6. US EPA ID Number: [illegible]

7. Transporter 2 Company Name:

8. US EPA ID Number:

9. Designated Facility Name and Site Address: [illegible], Inc., [illegible] I-94 Service Drive, Belleville, MI 48111

10. US EPA ID Number: MID 048099683

A. State Manifest Document Number: MI 2390372

B. State Generator's ID: [illegible]

C. State Transporter's ID: MOEPS/110

D. Transporter's Phone: (800) 456-8307

E. State Transporter's ID:

F. Transporter's Phone:

G. State Facility's ID:

H. Facility's Phone: (313) 697-[illegible]

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER)

	HM	12. Containers No	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	N/H
a.	X	001	DT	XXX18	YD	U028	
b.							
c.							
d.							

a. [illegible], Solid, N.O.S., (contains Dis [illegible] Thiuram) [illegible] NA9189

J. Additional Descriptions for Materials Listed Above: NFF 3001 TS TRAILER NAME = RNW-TS 29286

Trailer # 187

K. Handling Codes for Wastes Listed Above: a/ / b/ / c/ / d/ /

15. Special Handling Instructions and Additional Information: 24 Hour Emergency Response Number (800) 626-6091

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.

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Printed/Typed Name: Raymond Yerkes — Signature: [illegible] — Date: Month Day Year 01 01 91

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: NORMAN P. RICE — Signature: Norman P. Rice — Date: Month Day Year 01 01 91

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: — Signature: — Date: Month Day Year

19. Discrepancy Indication Space: T.L. #102285

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Howard Crayton — Signature: [illegible] — Date: Month Day Year 01 02 91

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: [illegible] Manifest Document No: [illegible]
2. Page 1 of 1
Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address: [illegible], Dayton, [illegible] 33372
4. Generator's Phone: (301) 727-2120
5. Transporter 1 Company Name: [illegible]
6. US EPA ID Number: [illegible]
7. Transporter 2 Company Name:
8. US EPA ID Number:
9. Designated Facility Name and Site Address: WAYNE DISPOSAL, 49350 N. SCHOOLCRAFT DR., BELLEVILLE MI
10. US EPA ID Number: MIID 048099633

A. State Manifest Document Number: MI 2390373
B. State Generator's ID: [illegible]
C. State Transporter's ID: MIDEPS7110
D. Transporter's Phone: (800) 455-8307
E. State Transporter's ID:
F. Transporter's Phone:
G. State Facility's ID:
H. Facility's Phone:

	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER)	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	N/H
a.	[illegible] solid, N.O.S., [illegible] (Cresol [illegible]) [illegible]	X	001	DT	XXXX	R	W	U028
b.								
c.								
d.								

J. Additional Descriptions for Materials Listed Above: MAY 3 1991 TRAILER MAKE — PENN TWO2728
Trailer 1119

K. Handling Codes for Wastes Listed Above: a/ / b/ / c/ / d/ /

15. Special Handling Instructions and Additional Information: 24 HOUR EMERGENCY RESPONSE NUMBER (800) 620-6091

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 governmental regulations.

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Printed/Typed Name: RAYMOND YERGEAU — Signature: [signature] — Date (Month Day Year): 04/30/91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: [illegible] — Signature: [signature] — Date (Month Day Year): 04/30/91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date (Month Day Year):

19. Discrepancy Indication Space: LWH #102132

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: [illegible] — Signature: [signature] — Date (Month Day Year): 04/09/91

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: MDV1 | Manifest Document No
2. Page 1 of 1 | Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
Essex Specialty Products
1-[illegible] Road, South, Saylerville, New Jersey 08872
4. Generator's Phone (201) 727-2100

A. State Manifest Document Number: MI 2390374
B. State Generator's ID: SHE

5. Transporter 1 Company Name: Hewitt Trucks Incorporated
6. US EPA ID Number: PA[illegible]
C. State Transporter's ID: NJ[illegible]
D. Transporter's Phone: (800) 456-3607

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
Wayne Disposal, Inc.
49350 N. I-94 Service Drive
Belleville, MI 48111
10. US EPA ID Number: MID 980 906 863
G. State Facility's ID
H. Facility's Phone: (313) 697-7830

	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER)	12. Containers No	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	N/H
a.	X RQ Hazardous Waste Solid, N.O.S. [contains bis (2-ethyl-hexyl) phthalate] UN-6 NA9188	001	DT	XXX18	TD	U028	
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
APF 225910
Trailer Mate 8-7 BUN ~~[illegible]~~ TL11854
Trailer # 188

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (600) 628-0091

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GENERATOR
Printed/Typed Name: RAYMOND YURASEK
Signature: Raymond Yurasek
Date: Month Day Year 04 04 91

TRANSPORTER
17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Michael Gornick
Signature: Michael Gornick
Date: Month Day Year 04 04 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Date: Month Day Year

FACILITY
19. Discrepancy Indication Space
T.L. #1021292

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: [illegible]
Signature: [illegible]
Date: Month Day Year 04 04 91

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: N J D 0 0 6 5 0 0 7 1 5 — Manifest Document No: 4 V O V R
2. Page 1 of 1
Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
Essex Specialty Products
1 Crossman Road, South, Sayreville, New Jersey 08872
4. Generator's Phone (201) 727-2100

A. State Manifest Document Number: MI 2390375
B. State Generator's ID: SAME

5. Transporter 1 Company Name: Unrith Trucks Incorporated
6. US EPA ID Number: P A D 0 0 6 4 0 3 5 8 1 9
C. State Transporter's ID: NUEPS7110
D. Transporter's Phone: (800) 456-8807

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
Wayne Disposal, Inc.
49350 N. I-94 Service Drive
Belleville, MI 48111
10. US EPA ID Number: M I D 0 4 8 0 9 0 6 3 3
G. State Facility's ID
H. Facility's Phone: (313) 697-7830

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER)

	HM	12. Containers No.	Type	13. Total Quantity	14. Unit WT/Vol	I. Waste No.	N/H
a.	X	001	DT	XXXX	YD	U028	
b.							
c.							
d.							

RQ Hazardous Waste Solid, N.O.S. [contains bis (2-ethyl hexyl) phthalate] Div-E NA9189

J. Additional Descriptions for Materials Listed Above
APF# 32561 UC Trailer Plate # - Iowa TM89794
Trailer # 175

K. Handling Codes for Wastes Listed Above: a/ / b/ / c/ / d/ /

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 621-6091

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.

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	Printed/Typed Name	Signature	Date (Month Day Year)
17. Transporter 1 Acknowledgement of Receipt of Materials	RAYMOND YERGEAU	Raymond Yergeau	04 01 91
18. Transporter 2 Acknowledgement of Receipt of Materials	EARLE MECKES	Earle Meckes	04 01 91
19. Discrepancy Indication Space			

Ok. #102298

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Date (Month Day Year)
Howard Compto	H. Compto	04 02 91

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UNIFORM HAZARDOUS WASTE MANIFEST

1 Generator's US EPA ID No: M D D 0 0 2 5 6 8 7 1 5 — Manifest Document No.

2 Page 1 of 1

Information in the shaded areas is not required by Federal law

3 Generator's Name and Mailing Address
Essex Specialty Products
1 Crossman Road, South, Sayreville, New Jersey 08872

A. State Manifest Document Number: MI 2390376

B. State Generator's ID: SAE

4 Generator's Phone: (201) 727-2100

5 Transporter 1 Company Name: Jenkins Trucks Incorporated

6 US EPA ID Number: M A D 0 6 4 0 3 5 8 9

C. State Transporter's ID: MDEP57110

D. Transporter's Phone: (800)456-8807

7 Transporter 2 Company Name

8 US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9 Designated Facility Name and Site Address
Wayne Disposal, Inc.
4500 N. I-94 Service Drive
Belleville, MI 48111

10 US EPA ID Number: M I D 0 4 8 0 9 0 6 3 3

G. State Facility's ID

H. Facility's Phone: (313) 697-7830

	HM	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	N/H
a.	X	RQ Hazardous Waste Solid N.O.S., [contains bis (2-ethyl hexyl) phthalate] UN-E NA9188	0 0 1	DT	XXXX 18	W	U 0 2 8	
b.								
c.								
d.								

J. Additional Descriptions for Materials Listed Above
APF # 3589140 Trailer Nate E-Rutt 78954
Trailer # 110

K. Handling Codes for Wastes Listed Above: a/ / b/ / c/ / d/ /

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 628-6091

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Printed/Typed Name	Signature	Date (Month Day Year)
RAYMOND YOSCEPAU	Raymond Yoscepau	04 04 91

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)
Dale Gorr	Dale Gorr	04 04 1991

18 Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)

19. Discrepancy Indication Space
J.C. 1021253

20 Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Date (Month Day Year)
Thomas Brutt	[illegible]	04 02 91

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: M J D 0 0 6 5 6 8 7 1 5 Manifest Document No: 9 V D V 8
2. Page 1 of 1
Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
Essex Specialty Products
1 Crossman Road, South, Sayreville, New Jersey 08872
4. Generator's Phone (201) 727-2100

5. Transporter 1 Company Name: Horvitt Trucks Incorporated
6. US EPA ID Number: P A D 0 6 1 0 3 5 8 1 9
7. Transporter 2 Company Name
8. US EPA ID Number

9. Designated Facility Name and Site Address
WAYNE DISPOSAL INC
Neath Service Road
Belleville, Michigan 48111
(313)-697-7830
10. US EPA ID Number: M I D 0 4 8 0 9 0 6 3 3

A. State Manifest Document Number: MI 2390377
B. State Generator's ID: SNE
C. State Transporter's ID: NJDEPS/110
D. Transporter's Phone: (800)456-8807
E. State Transporter's ID
F. Transporter's Phone
G. State Facility's ID
H. Facility's Phone

	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER)	HM	12. Containers No	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	N/H
a.	RQ Hazardous Waste Solid, N.O.S., [contains bis (2-ethyl hexyl) phthalate] ORM-E NA9188	X	001	DT	XXXX18	YD	U028	
b.								
c.								
d.								

J. Additional Descriptions for Materials Listed Above
APF# 3C2011B Trailer Pad Plant TN 75017
Trailer # 179

K. Handling Codes for Wastes Listed Above: a/ / b/ / c/ / d/ /

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 628-6001

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Printed/Typed Name: RAYMOND YORGEAU
Signature: Raymond Yorgeau
Date: Month 10 Day 10 Year 89

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Lamont Getz
Signature: Lamont Getz
Date: Month 10 Day 10 Year 89

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Date: Month Day Year

19. Discrepancy Indication Space
LWH 102295

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: Thin Bu
Signature
Date: Month 10 Day 29 Year 89

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: MIL000008963 — Manifest Document No.
2. Page 1 of 1
Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
Essex Specialty Products
1 Crossroad Road, South, Sayreville, New Jersey 08872

4. Generator's Phone (201) 727-9111

5. Transporter 1 Company Name: Health Tech's Incorporated
6. US EPA ID Number: MIL000008963

7. Transporter 2 Company Name
8. US EPA ID Number

9. Designated Facility Name and Site Address
Waste Disposal, Inc.
45601 N. I-96 Service Drive
Belleville, MI 48111
10. US EPA ID Number: MID048090633

A. State Manifest Document Number: MI 2390378
B. State Generator's ID: SAME
C. State Transporter's ID: MDEPS/110
D. Transporter's Phone: (800) 456-8807
E. State Transporter's ID
F. Transporter's Phone
G. State Facility's ID
H. Facility's Phone: (313) 697-7230

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).

	HM	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	N/H
a.	X	001	DT	XXXX	YD	U028	
b.							
c.							
d.							

a. RQ Hazardous Waste Solid, N.O.S. (contains bis (2-ethyl hexyl) phthalate) UN-E NA9188

J. Additional Descriptions for Materials Listed Above
APP# 2390378 Trailer Plate # - Prov - TN 75017
Trailer # 117

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
24 hour Emergency Response Number (300) 628-6091

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Printed/Typed Name: RAYMOND YORGEAU — Signature: Raymond Yorgeau — Date: Month Day Year 04 01 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: DAVID B. BRYENGLE — Signature: David B. Bryengle — Date: Month Day Year 04 01 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date: Month Day Year

19. Discrepancy Indication Space
LWH

102308

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Thomas Bu[illegible] — Signature — Date: Month Day Year 04 02 91

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: P J J 0 6 5 5 8 7 1 5 — Manifest Document No: 7 0 0 6
2. Page 1 of 1
Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
Essex Specialty Products
1 Cresskill Road, Suite, Springville, New Jersey 07072
4. Generator's Phone (201) 727-2100

A. State Manifest Document Number: MI 2390384
B. State Generator's ID: SAE

5. Transporter 1 Company Name: Horwith Trucks Incorporated
6. US EPA ID Number: P A D 0 0 6 4 0 3 5 8 1 8
C. State Transporter's ID: MDEPS/110
D. Transporter's Phone: (800)450-8807

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Hayes Disposal, Inc.
49250 N. I-55 Service Drive
Belleville, MI 48111
10. US EPA ID Number: M I D 0 4 8 0 0 0 6 3 3
G. State Facility's ID:
H. Facility's Phone: (313) 697-7830

	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER)	12. Containers No	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	N/H
a. X	RQ Hazardous Waste Solid, N.O.S. [contains bis (2-ethyl hexyl) phthalate] UN-E N9188	0 0 1	D T	XXXX 8	YD	U 0 2 8	
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
APH 32591 18 Trailer Plate #-Red T628647
Trailer #106

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 628-6091

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	Printed/Typed Name	Signature	Date (Month Day Year)
Generator	RAYMOND YERGEAU	Raymond Yergeau	04/10/91
17. Transporter 1 Acknowledgement of Receipt of Materials	Gordon Bird	Gordon Bird	04/10/91
18. Transporter 2 Acknowledgement of Receipt of Materials			
19. Discrepancy Indication Space			

19. Discrepancy Indication Space
Ok

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
#-102323

	Printed/Typed Name	Signature	Date (Month Day Year)
Facility	[illegible]	[illegible]	04/10/91

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: M I D 0 0 2 5 6 7 1 5 8 7 0 7 7
Manifest Document No.
2. Page 1 of 1
Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
Essex Specialty Products
1 Crossing Road, South, Sayreville, New Jersey 08872
4. Generator's Phone (201) 727-2100

A. State Manifest Document Number: MI 2390385
B. State Generator's ID: SHE

5. Transporter 1 Company Name: Hamilton Trucks Incorporated
6. US EPA ID Number: P A D 0 0 4 4 3 1 5 8 1 1 9
C. State Transporter's ID: NJDEPS7110
D. Transporter's Phone: (800) 456-8807

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Wayne Disposal, Inc.
36350 N. I-94 Service Drive
Belleville, MI 48111
10. US EPA ID Number: M I D 0 4 8 0 9 0 6 3 3
G. State Facility's ID:
H. Facility's Phone: (313) 697-7830

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).

	HM		12. Containers No	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	N/H
a.	X	RQ Hazardous Waste Solid, N.O.S., (contains bis (2-ethyl hexyl) phthalate) 9+E NA9188	0 0 1	DT	1 X X 1 8	YD	U 0 2 8	
b.								
c.								
d.								

J. Additional Descriptions for Materials Listed Above
APF# 300148 Trailer Plate # - Repo 7531634
Trailer # 2000185

K. Handling Codes for Wastes Listed Above
a/
b/
c/
d/

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 626-6091

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by [illegible] ached, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

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Printed/Typed Name: RAYL. VAN YERGEN
Signature: Raymond Vyerson
Date: Month Day Year 04 01 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: O. C. WEHR
Signature: O. C. Wehr
Date: Month Day Year 04 01 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space
LWH
102287

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Marvin Bill
Signature: [illegible]
Date: Month Day Year 04 02 91

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: 0 0 0 0 0 2 9 0 3 7 1 5 — Manifest Document No: 8 7 0 8 8
2. Page 1 of 1
Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
Essex Specialty Products
1 Thousand Road, South, Saynerville, New Jersey 08872
4. Generator's Phone (201) 727-2100

A. State Manifest Document Number: MI 2390386
B. State Generator's ID: SNE

5. Transporter 1 Company Name: Hunter Transport Incorporated
6. US EPA ID Number: P A D 0 0 6 1 0 1 3 1 1 9
C. State Transporter's ID: NJUPS7110
D. Transporter's Phone: (300) 455-8607

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
Inland Disposal, Inc.
4350 N. I-94 Service Drive
Belleville, MI 48111
10. US EPA ID Number: M I D 0 4 8 0 9 0 6 3 3
G. State Facility's ID
H. Facility's Phone: (313) 697-7830

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER)	HM	12. Containers No	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	N/H
a.	X	RQ Hazardous Waste Solid, N.O.S. [contains bis (2 ethyl hexyl) phthalate] UN9-E NA9188	0 0 1	D T	X X X 18	YD	U 0 2 8
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
MFI 355113 Trailer Hole P-Ann-TG77105
Trailer 1197

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 628-6091

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Printed/Typed Name: RAYMOND VERGEUS — Signature: Raymond Vergeus — Date: Month Day Year 04 19 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Marty Bilhager — Signature: Marty Bilhager — Date: Month Day Year 04 19 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date: Month Day Year

19. Discrepancy Indication Space
LWH
#1021366

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Hilary J. Pungetti — Signature — Date: Month Day Year 04 19 91

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NJD002568715 Manifest Document No. 191101A
2. Page 1 of 1
Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
ESSEX SPECIALTY PRODUCTS
1 CRUSSMAN ROAD, SOUTH, SAYREVILLE, New Jersey 08872
4. Generator's Phone (201) 727-2100

A. State Manifest Document Number: MI 2390355
B. State Generator's ID: SAME

5. Transporter 1 Company Name: Hercuith Trucks Incorporated
6. US EPA ID Number: MAD014035811
C. State Transporter's ID: NJDEP5710
D. Transporter's Phone: (800) 456-8807

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
Wayne Disposal, Inc
49350 N. I-94 Service Dr.
Belleville, MI 48111
10. US EPA ID Number: MID014820633
G. State Facility's ID
H. Facility's Phone: (313) 697-7830

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER)

	HM	11. US DOT Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	N/H
a.	X	RQ Hazardous Waste Solid, N.O.S. (contains bis (2-ethylhexyl) phthalate) ORM-E NA9188	001	DT	XXX 118	YD	U028	
b.								
c.								
d.								

J. Additional Descriptions for Materials Listed Above
PPF # 32591WB Trilic-PLC-Pen-TN 7-1994
Trilic #190

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 628-6091

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Printed/Typed Name: RAYMOND VERGERAU
Signature: Raymond Vergerau
Date (Month Day Year): 04/01/91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: THOMAS CASIERE
Signature: Thomas Casiere
Date (Month Day Year): 04/01/91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Date (Month Day Year)

19. Discrepancy Indication Space
LWH
1021311

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Thomas Brunty
Signature
Date (Month Day Year): 04 09 91

GENERATOR — TRANSPORTER — DESIGNATED FACILITY

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Form Approved OMB No 2050-0039 Expires 9-30-91

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No | Manifest Document No
2. Page 1 of 1
Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
Essex Specialty Products
1 Crossman Road, South, Sayreville, New Jersey 08872

4. Generator's Phone (201) 727-2100

5. Transporter 1 Company Name: Herwith Trucks Incorporated
6. US EPA ID Number: P A D 0 6 4 0 3 5 0 1 9

7. Transporter 2 Company Name
8. US EPA ID Number

9. Designated Facility Name and Site Address
Wayne Disposal, Inc.
49350 N. I-94 Service Drive
Belleville, MI 48111
10. US EPA ID Number: M I D 0 4 8 6 9 0 6 1 3

A. State Manifest Document Number: MI 2390388
B. State Generator's ID: SAME
C. State Transporter's ID: NJDEPS7110
D. Transporter's Phone: (609)455-8807
E. State Transporter's ID
F. Transporter's Phone
G. State Facility's ID
H. Facility's Phone: (313) 69707830

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).	HM	12. Containers No	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	N/H
a. UN Hazardous Waste Solid, n.o.s., (contains bis (2-ethyl Hexyl) phthalate) ORM-E NA9188	X	0 0 1	D T	x x x x 8	YD	U 0 2 8	
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
APPA 3209108 Trailer Make-Pow TS97278
Trailer #177

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 623-6091

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 governmental 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 certify that 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	Signature	Date (Month Day Year)
RAYMOND YEO	[signature]	04/02/91

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)
Jeff Grim	[signature]	04/02/91

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)

19. Discrepancy Indication Space
102352

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Date (Month Day Year)
Thomas Grant	[signature]	04/03/91

EPA Form 8700-22 (Rev. 9/88)
PR 5110 Rev. 9/90

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: [illegible] Manifest Document No: [illegible]
2. Page 1 of 1
Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
Essex Specialty Products
1 Crossman Road, South, Sayreville, New Jersey [illegible]

4. Generator's Phone ([illegible]) [illegible]

5. Transporter 1 Company Name: [illegible]
6. US EPA ID Number: [illegible]

7. Transporter 2 Company Name:
8. US EPA ID Number:

9. Designated Facility Name and Site Address
Wayne Disposal, Inc.
[illegible] N. I-96 Service Drive
Belleville, MI 48111
10. US EPA ID Number: [illegible]

A. State Manifest Document Number: MI 2390389
B. State Generator's ID: S+E
C. State Transporter's ID: [illegible]
D. Transporter's Phone: (800) 456-[illegible]
E. State Transporter's ID:
F. Transporter's Phone:
G. State Facility's ID:
H. Facility's Phone: (313) 697-7630

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER)	HM		12. Containers No	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	N/H
a.	X	Rq Hazardous Waste Solid, N.O.S., (contains bis (2-ethyl hexyl) phthalate) [illegible]	001	DT	XXX18	TD	U028	
b.								
c.								
d.								

J. Additional Descriptions for Materials Listed Above
Approval # 3[illegible] Trailer Plate # - Penn TJ 48707
Trailer # 181

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 628-6091

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.

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Printed/Typed Name: RAYMOND YERGEAU
Signature: Raymond Yergeau
Date: Month Day Year: 04 02 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: RICHARD E. MERTZ
Signature: Richard E. Mertz
Date: Month Day Year: 04 02 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year:

19. Discrepancy Indication Space
LWH
1021367

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Thomas Reuil
Signature: [illegible]
Date: Month Day Year: 04 03 91

EPA Form 8700-22 (Rev. 9/88)

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PR 6110 Rev. 9/90

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1979 as amended and Act 136 PA 1969

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: [illegible] Manifest Document No: [illegible]
2. Page 1 of 1
Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
Essex Specialty Products
1 Chessman Road, South, Sayreville, New Jersey 08872

4. Generator's Phone (201) 727-2100

A. State Manifest Document Number: MI 2390390
B. State Generator's ID: same

5. Transporter 1 Company Name: Horwith Trucks Incorporated
6. US EPA ID Number: PA D06403581 9
C. State Transporter's ID: NJDEPS7110
D. Transporter's Phone: (800) 456-8807

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Wayne Disposal Inc.
49350 N. I-96 Service Drive
Belleville, MI 48111
10. US EPA ID Number: MID048090633
G. State Facility's ID:
H. Facility's Phone: (313) 697-7830

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).	HM		12. Containers No	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	N/H
a.	X	RQ Hazardous Waste Solid, N.O.S., [contains bis (2-ethyl hexyl) phthalate] ORM-E NA9188	001	DT	XXX18	YD	U028	
b.								
c.								
d.								

J. Additional Descriptions for Materials Listed Above
App # 3250103 Trailer Plate # - Penn TM 48690
Trailer #172

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 628-6091

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Printed/Typed Name: RAYMOND VERGEAU
Signature: Raymond Vergeau
Date: Month Day Year: 04 02 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Roger Balliet
Signature: Roger Balliet
Date: Month Day Year: 04 02 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year:

19. Discrepancy Indication Space
J.U
1021358

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Thomas Brun
Signature: [signature]
Date: Month Day Year: 04 03 91

EPA Form 8700-22 (Rev. 9/88)

PR 5110 Rev. 9/90

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UNIFORM HAZARDOUS WASTE MANIFEST

1 Generator's US EPA ID No: 0 0 0 0 2 5 6 3 7 1 5 — Manifest Document No: 1 1 0 2 8

2 Page 1 of 1

Information in the shaded areas is not required by Federal law

3 Generator's Name and Mailing Address
Essex Specialty Products
1 Crossman Road, South, Sayreville, New Jersey 08872

4 Generator's Phone (201) 727-2100

A. State Manifest Document Number: MI 2390392

B. State Generator's ID: SAME

5. Transporter 1 Company Name: Marvin Trucks Incorporated
6. US EPA ID Number: P A D 0 6 3 4 0 3 5 8 1 9

C. State Transporter's ID: NJDEPS7110

7. Transporter 2 Company Name:
8. US EPA ID Number:

D. Transporter's Phone: (800)456-8807

E. State Transporter's ID:

9. Designated Facility Name and Site Address
Wayne Disposal, Inc.
49350 N. I-96 Service Drive
Belleville, MI 48111

10. US EPA ID Number: M I D 0 0 4 8 0 9 0 6 3 3

F. Transporter's Phone:

G. State Facility's ID:

H. Facility's Phone: (313) 697-7830

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).

	HM		12 Containers No	Type	13 Total Quantity	14 Unit Wt/Vol	I. Waste No.	N/H
a.	x	RQ Hazardous Waste Solid, N.O.S., [contains bis (2-ethyl hexyl) phthalate] ORM-E NA9188	0 0 1	DT	XXX18	YD	U 0 2 8	
b.								
c.								
d.								

J. Additional Descriptions for Materials Listed Above
App # 3250148 Trailer Plate # PENN TW14607
Trailer # 183

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 628-6001

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.

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Printed/Typed Name: RAYMOND VERGEAU — Signature: Raymond Vergeau — Date: Month Day Year 04 03 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: D Hantz — Signature: D Hantz — Date: Month Day Year 04 02 91

18. Transporter 2 Acknowledgement or Receipt of Materials
Printed/Typed Name: — Signature: — Date: Month Day Year

19. Discrepancy Indication Space
LWH

1021365

20. Facility Owner or Operator. Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Thomas Bu[illegible] — Signature: [illegible] — Date: Month Day Year 04 03 91

EPA Form 8700-22 (Rev. 9/88)

PR 5110 Rev 8/90

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: M I D 9 8 7 1 5 8 4 1 0 2 H
Manifest Document No

2. Page 1 of 1

Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
Esso Specialty Products
1 Crossroad Road, South, Somerville, New Jersey 08872

4. Generator's Phone (201) 707-2100

A. State Manifest Document Number: MI 2390394

B. State Generator's ID: SAE

5. Transporter 1 Company Name: Hamlin Trucks Incorporated
6. US EPA ID Number: P A D 0 0 5 4 0 3 5 5 1 8
C. State Transporter's ID: MUPS7110
D. Transporter's Phone: (800)456-8007

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
Wayne Disposal, Inc.
4500 N. I-94 Service Drive
Belleville, MI 48111
10. US EPA ID Number: M I D 0 0 4 8 0 9 0 6 3 3
G. State Facility's ID
H. Facility's Phone: (313)697-7830

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).	HM	12. Containers No	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	N/H
a. NQ Hazardous Waste Solid, N.O.S., (contains bis (2-ethyl hexyl) phthalate) UN9189	X	0 0 1	DT	0 0 0 0 8	YGS	U 0 2 8	
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Trailer Plate # - Run - TT 38190
AP # 3259140
Trailer # 193

K. Handling Codes for Wastes Listed Above
a/
b/
c/
d/

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 628-6091

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.

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Printed/Typed Name: RAYMOND YERALIAN
Signature: [signature]
Date: Month Day Year 08 10 88

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Ambrose J. Pate
Signature: [signature]
Date: Month Day Year 08 10 88

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Date: Month Day Year

19. Discrepancy Indication Space
NL.
102135

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Thomas Burt
Signature: [signature]
Date: Month Day Year 08 09 88

GENERATOR — TRANSPORTER — DESIGNATED FACILITY

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UNIFORM HAZARDOUS WASTE MANIFEST

1 Generator's US EPA ID No: MID 980 612 537 | Manifest Document No: 1 0 0 8 8

2 Page 1 of 1

Information in the shaded areas is not required by Federal law

3 Generator's Name and Mailing Address
Essex Sanitary Products
1 Crossman Road, South, Sayreville, New Jersey, 08872

4 Generator's Phone (201) 727-2100

5 Transporter 1 Company Name: Hamilton Trucks Incorporated
6 US EPA ID Number: MID 006 410 315 119

7 Transporter 2 Company Name
8 US EPA ID Number

9 Designated Facility Name and Site Address
Wayne Disposal, Inc.
4500 N. I-94 Service Drive
Belleville, MI 48111
10 US EPA ID Number: MID 048 090 663

A. State Manifest Document Number: MI 2390395
B. State Generator's ID: SVE
C. State Transporter's ID: MDEPS7110
D. Transporter's Phone: (800) 466-8807
E. State Transporter's ID
F. Transporter's Phone
G. State Facility's ID
H. Facility's Phone: (313) 697-7830

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID NUMBER)	HM	12. Containers No	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	N/H
a. RQ Hazardous Waste Solid, N.O.S., (contains bis (2ethyl hexyl) phthalate) UN-E 9189	X	001	DT	XXX 18	YD	U028	
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Approval # 3201 (a) Trailer Plate # Ts 31639
Trailer #185

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 633-6001

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.

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Printed/Typed Name: RAY VISCOGLIOSI | Signature | Date (Month Day Year): 10 14 1991

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: O. C. WEHR | Signature | Date (Month Day Year): 10 14 1991

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Date (Month Day Year)

19. Discrepancy Indication Space
TL 1021483

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Thomas Berry | Signature | Date (Month Day Year): 10 18 91

EPA Form 8700-22 (Rev. 9/88)

PR 5110 Rev 8-90

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: N J D 0 0 2 5 5 8 7 1 5 — Manifest Document No.: M 1 0 8 6
2. Page 1 of 1

Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address: Essex Specialty Products, 1 Crossman Road, South, Sayreville, New Jersey, 08872
4. Generator's Phone: (201) 727-2100

A. State Manifest Document Number: MI 2390400
B. State Generator's ID: SAME
C. State Transporter's ID: NJDEPS7110
D. Transporter's Phone: (800) 456-8007
E. State Transporter's ID:
F. Transporter's Phone:
G. State Facility's ID:
H. Facility's Phone: (313) 697-7830

5. Transporter 1 Company Name: Hamilton Trucks Incorporated
6. US EPA ID Number: P A D 0 5 4 0 3 9 8 1 9
7. Transporter 2 Company Name:
8. US EPA ID Number:
9. Designated Facility Name and Site Address: Wayne Disposal, Inc., 49000 N. I-95 Service Drive, Belleville, MI 48111
10. US EPA ID Number: M I D 0 4 8 0 9 0 6 3 3

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER)	HM		12. Containers No	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	N/H
a.	X	NQ Hazardous Waste Solid, N.O.S., [contains bis (2-ethyl hexyl) phthalate] GNH-E NA9183	0 0 1	0 T	XXX18	YD	U 0 2 8	
b.								
c.								
d.								

J. Additional Descriptions for Materials Listed Above: App # 3[illegible] Trailer Plate # - E TV40961; Trailer # 117

K. Handling Codes for Wastes Listed Above: a/ / b/ / c/ / d/ /

15. Special Handling Instructions and Additional Information: 24 Hour Emergency Response Number (800) 628-5001

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Printed/Typed Name	Signature	Date (Month Day Year)
RAYMOND YERGEAU	Raymond Yergeau	04 05 81

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)
DAVID B. BRYEOGLE	David B. Bryeogle	04 05 81

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)

19. Discrepancy Indication Space: JL 1021464

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Date (Month Day Year)
[illegible]	[illegible]	04 08 81

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PR 8110 Rev 9/90

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UNIFORM HAZARDOUS WASTE MANIFEST

1 Generator's US EPA ID No | Manifest Document No
2 Page 1 of 1

Information in the shaded areas is not required by Federal law

3 Generator's Name and Mailing Address
Essex Specialty Products
1 Crossman Road, South, Sayreville, New Jersey 08872

A. State Manifest Document Number
MI 2390401

B. State Generator's ID
SNE

4 Generator's Phone (201) 727-2100

5 Transporter 1 Company Name
Horwith Trucks Incorporated

6 US EPA ID Number

C. State Transporter's ID

D. Transporter's Phone

7 Transporter 2 Company Name

8 US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9 Designated Facility Name and Site Address
Wayne Disposal Inc.
49350 N. I-94 Service Drive
Belleville, MI 48111

10 US EPA ID Number

G. State Facility's ID

H. Facility's Phone
(313) 697-7000

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).	HM		12 Containers No	Type	13 Total Quantity	14 Unit Wt/Vol	I. Waste No.	N/H
a.	X	RQ Hazardous Waste Solid, N.O.S., (contains bis (2-ethyl hexyl) phthalate) D017-E HW9101	001	DT	XXXX 8	Y	D012	
b.								
c.								
d.								

J. Additional Descriptions for Materials Listed Above
App # 3259118 Trailer Plate # - RNN TS78904
Trailer # 148

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15 Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (313)698-6091

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Printed/Typed Name: RAYMOND VERGEAU
Signature: [signature]
Date: Month Day Year 04 10 87

17 Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Gene Zeczycki
Signature: Gene Zeczycki
Date: Month Day Year 04 10 87

18 Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space
GL 10213560

20 Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name: Thomas Gunn
Signature: [signature]
Date: Month Day Year 04 13 87

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Form Approved OMB No 2050-0039 Expires 8-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: [illegible] Manifest Document No: 17285

2. Page 1 of 1

Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
Essex Specialty Products
1 Crossman Road, South, Sayreville, New Jersey 08872

4. Generator's Phone (201) 727-2100

A. State Manifest Document Number: MI 2390402

B. State Generator's ID: 54F

5. Transporter 1 Company Name: Horwith Trucks Incorporated

6. US EPA ID Number: [illegible]

C. State Transporter's ID: [illegible]

D. Transporter's Phone: [illegible]

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Wayne Disposal, Inc.
49350 N. I-94 Service Drive
Belleville, MI 48111

10. US EPA ID Number: [illegible]

G. State Facility's ID

H. Facility's Phone: (313) [illegible]

	HM	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER)	12. Containers No	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	N/H
a.	X	NQ Hazardous Waste Solid, N.O.S., [contains bis (2-ethyl hexyl) phthalate] UN9189	001	DT	XXXX 18	Y	D022	
b.								
c.								
d.								

J. Additional Descriptions for Materials Listed Above
App # 32291 US Trailer Hole # -TAV8670
Trailer #172

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 669-3091

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.

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17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: RAYMOND VERGEAU Signature: [signature] Date: Month 04 Day 11 Year 89

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: Roger Balliet Signature: Roger Balliet Date: Month 04 Day 11 Year 89

Printed/Typed Name Signature Date: Month Day Year

19. Discrepancy Indication Space
[illegible]

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
10/21/88

Printed/Typed Name: Thomas Brunt Signature: [signature] Date: Month 10 Day 21 Year 88

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No | | | | | | | | | | | | Manifest Document No. 11PRV

2. Page 1 of 1

Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
Essex Specialty Products
1 Crossroads Drive, South, Schaumburg, Illinois 60173

4. Generator's Phone (312) 397-7800

5. Transporter 1 Company Name
Chemical Transportation Enterprises

6. US EPA ID Number | | | | | | | | | | | | | |

7. Transporter 2 Company Name

8. US EPA ID Number | | | | | | | | | | | | | |

9. Designated Facility Name and Site Address
Wayne Disposal, Inc.
49350 N. I-94 Service Drive
Belleville, MI 48111

10. US EPA ID Number | | | | | | | | | | | | | |

A. State Manifest Document Number: MI 2390404.
B. State Generator's ID: 344
C. State Transporter's ID: [illegible]
D. Transporter's Phone: (312) [illegible]
E. State Transporter's ID:
F. Transporter's Phone:
G. State Facility's ID:
H. Facility's Phone: (313) 697-7865

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).

	HM		12. Containers No	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	N/H
a.	X	RQ Hazardous Waste Solid, n.o.s., (contains bis (dimethyl ethyl) phosphorodithioate) UN9188 Solid	001	DT	XXXX1B	TO	D020	
b.								
c.								
d.								

J. Additional Descriptions for Materials Listed Above
MP # 3359115 Trailer Plate # TS78904
Trailer #198

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 535-5053

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 governmental regulations.

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GENERATOR

Printed/Typed Name: RAYMOND VIRGILIO
Signature: [signature]
Date: Month 04 Day 14 Year 91

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: [illegible]
Signature: [illegible]
Date: Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature: Gene [illegible]
Date: Month Day Year

FACILITY

19. Discrepancy Indication Space
WH
7021427

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: THOMAS BRUN
Signature: [illegible]
Date: Month Day Year

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UNIFORM HAZARDOUS WASTE MANIFEST

1 Generator's US EPA ID No: M D 0 0 6 1 7 1 6 7 0 | Manifest Document No: 7 0 0 7 8

2 Page 1 of 1

Information in the shaded areas is not required by Federal law

3 Generator's Name and Mailing Address
Essex Specialty Products
1 Crossman Road, South, Sayreville, New Jersey 08872

4 Generator's Phone (201) 721-2100

5 Transporter 1 Company Name: Hamilton Trucks Incorporated
6 US EPA ID Number: P A D 0 6 4 0 3 5 8 1 8

7 Transporter 2 Company Name
8 US EPA ID Number

9 Designated Facility Name and Site Address
Wayne Disposal, Inc.
49350 N. I-94 Service Drive
Belleville, MI 48111
10 US EPA ID Number: M I D 0 0 4 0 1 9 0 6 3 3

A. State Manifest Document Number: MI 2390406
B. State Generator's ID: NJ
C. State Transporter's ID: NJ 0 0 5 7 1 1 0
D. Transporter's Phone: (908) 454-5107
E. State Transporter's ID
F. Transporter's Phone
G. State Facility's ID
H. Facility's Phone: (313) 697-7831

GENERATOR

	11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID NUMBER).	HM	12. Containers No	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	N/H
a.	NA Hazardous Waste Solid, N.O.S., [contains bis (2-ethyl hexyl) phthalate] (Est-E 85%)	X	001	DT	XXXXIR	YD	U028	
b.								
c.								
d.								

J. Additional Descriptions for Materials Listed Above
App # 261 3258143 Trailer Plate #-TW 26420
Trailer # 118

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 628-6091

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Printed/Typed Name: RAYMOND YOUCHAU | Signature: [signature] | Date: Month Day Year 04 04 91

TRANSPORTER

17 Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: LESTER P SNYDER | Signature: Lester P. Snyder | Date: Month Day Year 04 04 91

18 Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Date: Month Day Year

FACILITY

19. Discrepancy Indication Space
IL #102431

20 Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: [illegible] | Signature: [illegible] | Date: Month Day Year 04 15 91

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: [illegible] Manifest Document No.
2. Page 1 of 1
Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
Essex Specialty Products
1 Crossman Road, South, Sayreville, New Jersey 08872
4. Generator's Phone (201) 727-2100

A. State Manifest Document Number: MI 2390407
B. State Generator's ID: SNE

5. Transporter 1 Company Name: Horvath Trucks Incorporated
6. US EPA ID Number: PA [illegible]
C. State Transporter's ID: [illegible]
D. Transporter's Phone: [illegible]

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
Wayne Disposal, Inc.
49350 N. I-94 Service Drive
Belleville, MI 48111
10. US EPA ID Number: MID 048 194 555
G. State Facility's ID
H. Facility's Phone: (313) 697-7330

	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).	12. Containers No	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	N/M
a.	X RQ Hazardous Waste Solid, N.O.S., (contains bis (2-ethyl hexyl) phthalate) UN-E 9188	001	CT	XXXVB	YD	U028	
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
App # 32391 WB Trailer Plate # - Pa 75 31639
Trailer # 155

K. Handling Codes for Wastes Listed Above
a/ b/ c/ d/

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 628-6091

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Printed/Typed Name: RAYMOND YOUNGLAU
Signature: [illegible]
Date: Month Day Year 01 01 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: DOUG PINE
Signature: [illegible]
Date: Month Day Year [illegible]

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Date: Month Day Year

19. Discrepancy Indication Space
T.L. #102846

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: BRUCE I. CRAWFORD
Signature: [illegible]
Date: Month Day Year 01 01 91

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. | Manifest Document No. 9 1 0 6 8 | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
Essex Specialty Products
1 Crossman Road, South, Sayreville, New Jersey 08872

4. Generator's Phone (201) 727-2100

A. State Manifest Document Number: MI 2390410
B. State Generator's ID: SAE
C. State Transporter's ID: [illegible]
D. Transporter's Phone: [illegible]
E. State Transporter's ID:
F. Transporter's Phone:
G. State Facility's ID:
H. Facility's Phone: (313) 697-7[illegible]

5. Transporter 1 Company Name: Norwich Trucks Incorporated
6. US EPA ID Number: P A D [illegible]
7. Transporter 2 Company Name:
8. US EPA ID Number:
9. Designated Facility Name and Site Address: Wayne Disposal, Inc.
49350 N. I-96 Service Drive
Belleville, MI 48111
10. US EPA ID Number:

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).	HM		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	N/H
a.	X	RQ Hazardous Waste Solid, N.O.S., [contains bis (2-ethyl hexyl) phthalate] ORM-E NA9153	[illegible]	[illegible]	XXX18	[illegible]	[illegible]	
b.								
c.								
d.								

J. Additional Descriptions for Materials Listed Above
App # 32591[illegible]
Trailer # 119
Trailer # [illegible] TW 02728

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
[illegible]

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Printed/Typed Name	Signature	Date Month Day Year
RAYMOND YERRAU	[signature]	11 17 91

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date Month Day Year
Steve Mooney	[signature]	11 17 91

18. Transporter 2 Acknowledgement or Receipt of Materials

Printed/Typed Name	Signature	Date Month Day Year

19. Discrepancy Indication Space
[signature] #1021829

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Date Month Day Year
[signature]	[signature]	11 17 91

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UNIFORM HAZARDOUS WASTE MANIFEST

1 Generator's US EPA ID No. | Manifest Document No. 91083
2 Page 1 of 1
Information in the shaded areas is not required by Federal law

3 Generator's Name and Mailing Address
[illegible] Specialty, Inc.
1 [illegible], [illegible], Belleville, [illegible]
4 Generator's Phone (313) 72[illegible]-[illegible]

A. State Manifest Document Number: MI 2390416
B. State Generator's ID: [illegible]

5 Transporter 1 Company Name: [illegible] Trans. Inc.
6 US EPA ID Number
C. State Transporter's ID
D. Transporter's Phone

7 Transporter 2 Company Name
8 US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9 Designated Facility Name and Site Address
Wayne Disposal, Inc.
4500 N. I-94 Service Drive
Belleville, MI 48111
10 US EPA ID Number: MID 980614535
G. State Facility's ID
H. Facility's Phone: (313) 697-7000

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER)	HM		12 Containers No	Type	13 Total Quantity	14 Unit Wt/Vol	I. Waste No.	N/H
a	X	NJ Hazardous Waste Solid, N.O.S., [illegible] (2-ethyl hexyl) phthalate [illegible]	[illegible]	DT	[illegible]	[illegible]	[illegible]	
b								
c								
d								

J. Additional Descriptions for Materials Listed Above
App # 325[illegible]3 Trailer Plate # - R 758904
Trailer Number - 198

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (313)[illegible]

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.

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Printed/Typed Name: Richard [illegible] | Signature: [illegible] | Date: Month Day Year 11/17/91

17 Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: George Zaczyk | Signature: George Zaczyk | Date: Month Day Year 11/17/91

18 Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Date: Month Day Year

19. Discrepancy Indication Space
Tl: #[illegible]

20 Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name: Richard [illegible] | Signature | Date: Month Day Year

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UNIFORM HAZARDOUS WASTE MANIFEST

1 Generator's US EPA ID No. | Manifest Document No. [illegible]
2 Page 1 of 1 | Information in the shaded areas is not required by Federal law

3 Generator's Name and Mailing Address
Essex Specialty [illegible]
1 Cross [illegible]

4 Generator's Phone ([illegible])

A State Manifest Document Number: MI 2390413
B. State Generator's ID: [illegible]

5 Transporter 1 Company Name: [illegible]
6 US EPA ID Number:
C. State Transporter's ID: [illegible]
D. Transporter's Phone: [illegible]

7 Transporter 2 Company Name:
8 US EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9 Designated Facility Name and Site Address
Wayne Disposal Inc.
49350 N. I-95 Service Drive
Belleville, MI 48111
10 US EPA ID Number:
G. State Facility's ID:
H. Facility's Phone: [illegible]

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER)	HM	12 Containers No.	Type	13 Total Quantity	14 Unit Wt./Vol.	I. Waste No.	N/H
a.	X [illegible]			XXX15			
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Approval # [illegible] Tailor Plant - Pa 7-148690
Trailer # 172

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
[illegible]

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Printed/Typed Name: RAYMOND VERGEAU | Signature: [signature] | Date: Month Day Year 04 17 91

17 Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Roger Balliet | Signature: Roger Balliet | Date: Month Day Year 04 17 91

18 Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: | Signature: | Date: Month Day Year

19 Discrepancy Indication Space
J.L. 10 Z 1993

20 Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name: Thomas [illegible] | Signature: [signature] | Date: Month Day Year

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UNIFORM HAZARDOUS WASTE MANIFEST

1 Generator's US EPA ID No | Manifest Document No.
2 Page 1 of 1
Information in the shaded areas is not required by Federal law

3 Generator's Name and Mailing Address
Essex Specialty Products
1 Crossman Road, South, Sayreville, New Jersey
4 Generator's Phone (201) 727-2100

A. State Manifest Document Number: MI 2390414
B. State Generator's ID: SITE

5 Transporter 1 Company Name: Hamilton Trucks Incorporated
6. US EPA ID Number
C. State Transporter's ID
D. Transporter's Phone

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9 Designated Facility Name and Site Address
Wayne Disposal, Inc.
49350 N. I-94 Service Drive
Belleville, MI 48111.
10. US EPA ID Number
G. State Facility's ID
H. Facility's Phone (313) 697-7530

	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER)	12. Containers No	Type	13 Total Quantity	14 Unit Wt/Vol	I. Waste No.	N/H
a.	X RQ Hazardous Waste Solid, N.O.S., [contains bis (2-ethyl hexyl) phthalate] UN-E N-9188	001	DT	XXXXXX	Y	D000	
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Approval # 32591 MI Filer Plate # -PA 75017
Trailer #179

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 628-6091

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GENERATOR

Printed/Typed Name: RAYMOND YERGINU
Signature: Raymond Yergin
Date: Month Day Year 10/11/91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Lamont Getz
Signature: Lamont Getz
Date: Month Day Year 10/11/91

TRANSPORTER

18 Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Date: Month Day Year

19. Discrepancy Indication Space
JL 10/21/91

FACILITY

20 Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Thomas Baum
Signature
Date: Month Day Year

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. | Manifest Document No. 8 0 9 3 | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
Essex Specialty Products
1 Crossman Road, South, Sayreville, New Jersey [illegible]

4. Generator's Phone (201) 727-[illegible]

5. Transporter 1 Company Name: Norwin Trucks Incorporated | 6. US EPA ID Number

7. Transporter 2 Company Name | 8. US EPA ID Number

9. Designated Facility Name and Site Address
Wayne Disposal, Inc.
49350 N. I-95 Service Drive
Belleville, MI 48111

10. US EPA ID Number

A. State Manifest Document Number: MI 2390409
B. State Generator's ID: SAE
C. State Transporter's ID
D. Transporter's Phone
E. State Transporter's ID
F. Transporter's Phone
G. State Facility's ID
H. Facility's Phone: (313) 697-7[illegible]

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).	HM		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	N/H
a.	X	RQ Hazardous Waste Solid, N.O.S., (contains bis (2-ethyl hexyl) phthalate) UN4-E NA9182	[illegible]	DT	XXXXIB	[illegible]	[illegible]	
b.								
c.								
d.								

J. Additional Descriptions for Materials Listed Above
App # 32501[illegible] Trailer License Plate - PA TN75017
Trailer # 179

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number XXXXXXXXXXXX (800) 623-6[illegible]

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.

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Printed/Typed Name	Signature	Date (Month Day Year)
RAYMOND YERGEAU	[signature]	04 [illegible] 91

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)
Lamont Getz	[signature]	[illegible]

18. Transporter 2 Acknowledgement or Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)

19. Discrepancy Indication Space
[signature] # 1091465

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19

Printed/Typed Name	Signature	Date (Month Day Year)
[illegible]	[signature]	[illegible]

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UNIFORM HAZARDOUS WASTE MANIFEST

1 Generator's US EPA ID No | Manifest Document No

2 Page 1 of 1

Information in the shaded areas is not required by Federal law

3 Generator's Name and Mailing Address
Essex Specialty Products
1 Crossman Road, South, Sayreville, New Jersey

4 Generator's Phone (201) 727-2100

5 Transporter 1 Company Name: Smith Trucks Incorporated
6 US EPA ID Number

7 Transporter 2 Company Name
8 US EPA ID Number

9 Designated Facility Name and Site Address
Wayne Disposal, Inc.
49350 N.I-94 Service Drive
Belleville, MI 48111
10 US EPA ID Number: MID 980 614 613

A. State Manifest Document Number: MI 2390415
B. State Generator's ID: SITE
C. State Transporter's ID
D. Transporter's Phone
E. State Transporter's ID
F. Transporter's Phone
G. State Facility's ID
H. Facility's Phone: (313) 697-7[illegible]

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER)	HM	12 Containers No	Type	13 Total Quantity	14 Unit Wt/Vol	I. Waste No.	N/H
a. RQ Hazardous Waste Solid, N.O.S., (contains bis (2-ethyl hexyl) phthalate) (WHE [illegible])	X	001	DT	4K [illegible]		D028	
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Trailer Plate # TN98139
Trailer #150

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) [illegible]

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Printed/Typed Name: RAYMOND [illegible] | Signature: [illegible] | Date: Month Day Year 01/11/91

17 Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Craig Doyle | Signature: [illegible] | Date: Month Day Year 01/17/91

18 Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Date: Month Day Year

19. Discrepancy Indication Space
T.L. 102 1243

20 Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: [illegible] | Signature: [illegible] | Date: Month Day Year [illegible]

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UNIFORM HAZARDOUS WASTE MANIFEST

1 Generator's US EPA ID No | Manifest Document No 4110827

2 Page 1 of 1

Information in the shaded areas is not required by Federal law

3 Generator's Name and Mailing Address
Essex Specialty Products
1 Crossian Road, South, Belleville, [illegible]

A. State Manifest Document Number
MI 2390427

B. State Generator's ID
[illegible]

4 Generator's Phone (313) 697-[illegible]

5 Transporter 1 Company Name
Hamilton Trucks Incorporated

6 US EPA ID Number

C. State Transporter's ID [illegible]

D. Transporter's Phone [illegible]

7 Transporter 2 Company Name

8 US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9 Designated Facility Name and Site Address
Wayne Disposal, Inc.
49350 N. I-94 Service Drive
Belleville, MI 48111

10 US EPA ID Number

G. State Facility's ID

H. Facility's Phone
(313) 697-[illegible]

	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER)	HM	12 Containers No	Type	13 Total Quantity	14 Unit Wt/Vol	I. Waste No.	N/M
a	RQ Hazardous Waste Solid, N.O.S., (contains bis (2-ethyl hexyl) phthalate) [illegible]	X	001	DT	KKK115	Y	D028	
b								
c								
d								

J. Additional Descriptions for Materials Listed Above
RQ # 32591 ID Tanker Rank 92-TC 11859
Trailer #188

K. Handling Codes for Wastes Listed Above
a/ 1
b/ 1
c/ 1
d/ 1

15 Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) [illegible]

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Printed/Typed Name: RAYMOND YERGEAU | Signature: [illegible] | Date Month Day Year: [illegible]

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Michael Gocnick | Signature: [illegible] | Date Month Day Year: [illegible]

18 Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Date Month Day Year

19. Discrepancy Indication Space
O.L #1021254

20 Facility Owner or Operator. Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name: [illegible] | Signature: [illegible] | Date Month Day Year: [illegible]

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UNIFORM HAZARDOUS WASTE MANIFEST

1 Generator's US EPA ID No. | Manifest Document No. | 2 Page 1 of 1 | Information in the shaded areas is not required by Federal law

3 Generator's Name and Mailing Address
Essex Specialty Products
1 Grossman Road, South, Sayreville, [illegible]

4 Generator's Phone ([illegible]) [illegible]

A. State Manifest Document Number: MI 2390417

B. State Generator's ID: [illegible]

5 Transporter 1 Company Name: Norwich Truck Incorporated
6 US EPA ID Number: [illegible]

C. State Transporter's ID: [illegible]

D. Transporter's Phone: [illegible]

7 Transporter 2 Company Name
8 US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9 Designated Facility Name and Site Address
Wayne Disposal, Inc.
49350 N. I-96 Service Drive
Belleville, MI 48111

10 US EPA ID Number: [illegible]

G. State Facility's ID

H. Facility's Phone: (313) [illegible] 697-7330

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER)	HM		12 Containers No	Type	13 Total Quantity	14 Unit Wt/Vol	I. Waste No.	N/H
a	X	RQ Hazardous Waste Solid, N.O.S., [illegible] (2-ethyl hexyl) [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
b								
c								
d								

J. Additional Descriptions for Materials Listed Above
[illegible] Trailer Plate # - Pa TT38190
Trailer # 193

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15 Special Handling Instructions and Additional Information
24 Hour Emergency Response Number [illegible] (800) [illegible]

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.

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Printed/Typed Name: Raymond Vernon | Signature: [illegible] | Date: Month Day Year: 04 17 91

17 Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: D. H[illegible] | Signature: [illegible] | Date: Month Day Year: 04 17 91

18 Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Date: Month Day Year

19 Discrepancy Indication Space
T.L. [illegible]

20 Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name: Thomas [illegible] | Signature | Date: Month Day Year

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UNIFORM HAZARDOUS WASTE MANIFEST

1 Generator's US EPA ID No | Manifest Document No 6 1 0 8 1 1 | 2 Page 1 of 1 | Information in the shaded areas is not required by Federal law

3 Generator's Name and Mailing Address
Essex Synthetic Products
1 [illegible], Sect, Sauville, [illegible]

4 Generator's Phone ([illegible]) 727-[illegible]

5 Transporter 1 Company Name: Hunter [illegible] | 6 US EPA ID Number

7 Transporter 2 Company Name | 8 US EPA ID Number

9 Designated Facility Name and Site Address
Laidlaw Disposal Inc.
4560 N. I-94 Service Drive
Belleville, MI 48111
10 US EPA ID Number

A. State Manifest Document Number: MI 2390431
B. State Generator's ID
C. State Transporter's ID
D. Transporter's Phone
E. State Transporter's ID
F. Transporter's Phone
G. State Facility's ID
H. Facility's Phone ([illegible])

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).	HM	12 Containers No	Type	13 Total Quantity	14 Unit WT/Vol	I. Waste No.	N/H
a. RQ Hazardous Waste Solid, n.o.s., [illegible] (Cresyl Acid) phosphate [illegible]	X	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
App # 3291 18 Trailer Plate # ~~72 TGH 55~~ Pa. TM 42689
Trailer # ~~168~~ 170

K. Handling Codes for Wastes Listed Above
a/ / b/ / c/ / d/ /

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) [illegible]

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 governmental regulations.

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Printed/Typed Name: RAYMOND [illegible] | Signature: [illegible] | Date: Month Day Year 1 0 4 1 1 7 8 1

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Dennis Crim | Signature: [illegible] | Date: Month Day Year 1 0 4 1 1 7 8 1

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Date: Month Day Year

19. Discrepancy Indication Space
[illegible]
#102 1250

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name: [illegible] | Signature: [illegible] | Date: Month Day Year 1 0 4 1 1 7 8 1

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UNIFORM HAZARDOUS WASTE MANIFEST

1 Generator's US EPA ID No | Manifest Document No. 011111

2 Page 1 of 1

Information in the shaded areas is not required by Federal law

3 Generator's Name and Mailing Address
Essex Specialty Products
1 Crossman Road, South, Sayreville, New Jersey, 08872

A. State Manifest Document Number
MI 2390430

B. State Generator's ID

4 Generator's Phone (201) 727-2100

5 Transporter 1 Company Name
Hazardous Waste Haulpaulos

6 US EPA ID Number

C. State Transporter's ID

D. Transporter's Phone

7 Transporter 2 Company Name

8 US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9 Designated Facility Name and Site Address
Hayes Disposal, Inc.
4950 N. I-96 Service Drive
Belleville, MI 48111

10 US EPA ID Number
MID 980 614 639

G. State Facility's ID

H. Facility's Phone
(313) 697-7330

	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).	HM	12 Containers No	Type	13 Total Quantity	14 Unit Wt/Vol	I. Waste No.	N/H
a.	RQ Hazardous Waste Solid, N.O.S., (contains bis (2-ethyl hexyl) phthalate) D012 waste	X	01	DT	XXX15	Y	D012	
b.								
c.								
d.								

J. Additional Descriptions for Materials Listed Above
Approval # 3291 13 Trailer Plate # PA TN 71994
Trailer #170

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 535-5053

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.

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Printed/Typed Name: RAYMOND VERREAU | Signature | Date: Month Day Year 01 11 89

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: John J. Fox | Signature | Date: Month Day Year 01 11 89

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Date: Month Day Year

19. Discrepancy Indication Space
TL #102182

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name | Signature | Date: Month Day Year 01 11 89

GENERATOR — TRANSPORTER — DESIGNATED FACILITY

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: NJD002166744 — Manifest Document No: 91DHY
2. Page 1 of 1

Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address: Essex Specialty Products, 1 Crossman Road, South, Sayreville, New Jersey 08872
4. Generator's Phone (201) 727-2100

A. State Manifest Document Number: MI 2390419

B. State Generator's ID: SAME

5. Transporter 1 Company Name: Horwith Trucks Incorporated
6. US EPA ID Number: PAD006186318110

C. State Transporter's ID

D. Transporter's Phone

7. Transporter 2 Company Name
8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address: Wayne Disposal, Inc., 49350 N. I-95 Service Drive, Belleville, MI 48111
10. US EPA ID Number: MID048090633

G. State Facility's ID

H. Facility's Phone: (313) 697-7830

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number) HM		12. Containers No	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	N/H
a.	X	RQ Hazardous Waste Solid, N.O.S., [contains bis (2-ethyl hexyl) phthalate] ORM-E NA9189	001	DT	XXX18	Y	U028	
b.								
c.								
d.								

J. Additional Descriptions for Materials Listed Above: Trailer Plate # - PA YS 47278; App # 34391 LB; Trailer # 177

K. Handling Codes for Wastes Listed Above: a/ b/ c/ d/

15. Special Handling Instructions and Additional Information: 24 Hour Emergency Response Number (800) 638-6101

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.

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Printed/Typed Name: RAYMOND YERSEAU — Signature: Raymond Apyrean — Date: 04/23/91

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Jeff Grim — Signature: Jeff Grim — Date: 04/23/91

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Date: Month Day Year

19. Discrepancy Indication Space

T.L.

1000020

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Thomas B... — Signature — Date: 04/23/91

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: MDD 055 171 398 — Manifest Document No: 0142
2. Page 1 of 1
Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
Essex Specialty Products
1 Crossman Road South, Sayreville, New Jersey 08872
4. Generator's Phone (201) 727-2100

A. State Manifest Document Number: MI 2390420
B. State Generator's ID: NONE

5. Transporter 1 Company Name: Hamilton Trucks Incorporated
6. US EPA ID Number: PAD 003 [illegible]
C. State Transporter's ID
D. Transporter's Phone (516) [illegible]

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
Wayne Disposal, Inc.
49350 N. I-96 Service Drive
Belleville, MI 48111
10. US EPA ID Number: MID 048 090 [illegible]
G. State Facility's ID
H. Facility's Phone (313) 697-7530

	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).	HM	12. Containers No	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	N/H
a.	RQ Hazardous Waste Solid, N.O.S., (contains bis (2-ethyl hexyl) phthalate) D012	X	001	CF	XXXX B	YL	U022	
b.								
c.								
d.								

J. Additional Descriptions for Materials Listed Above
App # 32591 18 Trailer Plate #:-TV34239
Trailer #3

K. Handling Codes for Wastes Listed Above
a/ 1
b/ 1
c/ 1
d/ 1

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 628-6231

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 governmental regulations.

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Printed/Typed Name: RAYMOND YERGEAU — Signature: [signature] — Date: Month Day Year 11 12 88

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: MM BOLLINGER — Signature: [signature] — Date: Month Day Year 11 12 88

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date: Month Day Year

19. Discrepancy Indication Space
103264

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Thomas Brunt — Signature: [signature] — Date: Month Day Year 11 12 88

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UNIFORM HAZARDOUS WASTE MANIFEST

1 Generator's US EPA ID No | Manifest Document No. MI 0 0 0 0 0 0 0 0 0 0 0 3

2 Page 1 of 1

Information in the shaded areas is not required by Federal law

3 Generator's Name and Mailing Address
Essex Specialty Products
1 Crossroads Drive, Belleville, Wayne County, MI

4 Generator's Phone ( ) - -

5 Transporter 1 Company Name | 6 US EPA ID Number
Hydro Tech Inc

7 Transporter 2 Company Name | 8 US EPA ID Number

9 Designated Facility Name and Site Address | 10 US EPA ID Number
Wayne Disposal, Inc.
49350 N. I-94 Service Drive
Belleville, MI 48111

A. State Manifest Document Number: MI 2390421
B. State Generator's ID
C. State Transporter's ID
D. Transporter's Phone
E. State Transporter's ID
F. Transporter's Phone
G. State Facility's ID
H. Facility's Phone

	11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID NUMBER).	HM	12 Containers No	Type	13 Total Quantity	14 Unit Wt/Vol	I. Waste No.	N/H
a.	RQ Hazardous Waste Solid, N.O.S., (Methyl Ethyl Ketone)	X			1	KKII	B	
b.								
c.								
d.								

J. Additional Descriptions for Materials Listed Above
App # 3581 US Trailer Plate # - PA 7W02731
Trailer #120

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15 Special Handling Instructions and Additional Information
24 Hour Emergency Response Phone (800) [illegible]

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.

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Printed/Typed Name: RAYMOND [illegible] | Signature | Date Month Day Year

17 Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: EARL KUNKEL | Signature | Date Month Day Year

18 Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Date Month Day Year

19. Discrepancy Indication Space
None

20 Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Thomas [illegible] | Signature | Date Month Day Year

GENERATOR 1. TRANSPORTER 1. TRANSPORTER 2. FACILITY

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PR 5110 Rev 9 90

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Form Approved OMB No 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1 Generator's US EPA ID No | Manifest Document No

2 Page 1 of 1

Information in the shaded areas is not required by Federal law

3 Generator's Name and Mailing Address
Essex Specialty Products
1 [illegible] Road, South, Belleville, [illegible]

4 Generator's Phone (201) 727-[illegible]

A. State Manifest Document Number
MI 2390423

B. State Generator's ID
[illegible]

5 Transporter 1 Company Name
[illegible] Transport Incorporated

6 US EPA ID Number

C. State Transporter's ID

D. Transporter's Phone

7 Transporter 2 Company Name

8 US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9 Designated Facility Name and Site Address
[illegible] Disposal, Inc.
[illegible] N. I-96 Service Drive
Belleville, MI 48111

10 US EPA ID Number

G. State Facility's ID

H. Facility's Phone
(313) 697-7[illegible]

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM		12 Containers No	Type	13 Total Quantity	14 Unit Wt/Vol	I. Waste No.	N/H
a	X	Hazardous Waste Solid, n.o.s., (contains DIS (2-ethylhexyl) phosphate) [illegible]		1	K	K188	
b							
c							
d							

J. Additional Descriptions for Materials Listed Above
KD # 3291 lb Trailer Plate #-Pa T529286
Trailer 6187

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15 Special Handling Instructions and Additional Information
[illegible] (201) 629-[illegible]

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Printed/Typed Name: RAYMOND VIRGILIO | Signature | Date Month Day Year

17 Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: NORMAN P. RICE | Signature: Norman P. Rice | Date Month Day Year 4 4 8 8 9

18 Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date Month Day Year

19. Discrepancy Indication Space
T.L. #1022011

20 Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19

Printed/Typed Name: Hubert Compton | Signature | Date Month Day Year 4 4 8 9

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PR 5110 Rev 9 90

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1989
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UNIFORM HAZARDOUS WASTE MANIFEST

1 Generator's US EPA ID No: [illegible] Manifest Document No. 91 PNS

2 Page 1 of 1

Information in the shaded areas is not required by Federal law

3 Generator's Name and Mailing Address
Essex Specialty Products
1 Crossman Road, South, Sayreville, New Jersey, 08872

4 Generator's Phone (201) 727-2100

A. State Manifest Document Number: MI 2390424

B. State Generator's ID: SPE

5 Transporter 1 Company Name: Horwith Trucks Incorporated

6 US EPA ID Number: PAD 000 [illegible]

C. State Transporter's ID: [illegible]

D. Transporter's Phone (313) [illegible]

7 Transporter 2 Company Name

8 US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9 Designated Facility Name and Site Address
Wayne Disposal, Inc.
49350 N. I-94 Service Drive
Belleville, MI 48111

10 US EPA ID Number: MID 980 [illegible]

G. State Facility's ID

H. Facility's Phone: (313) 697-7613

	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).	HM	12 Containers No	Type	13 Total Quantity	14 Unit Wt/Vol	I. Waste No.	N/H
a.	RQ Hazardous Waste Solid, [illegible] (2-ethyl hexyl) phthalate [illegible]	X	001	DT	XXXX18	Y	U028	
b.								
c.								
d.								

J. Additional Descriptions for Materials Listed Above
App # 30591 WD. Trailer Plate # PR 4834
Trailer #188

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 620-6051

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.

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Printed/Typed Name: RAYMOND YERGEAU — Signature: [signature] — Date: Month Day Year 10/23/91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Michael Gornick — Signature: [signature] — Date: Month Day Year 10/23/91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date: Month Day Year

19. Discrepancy Indication Space
LWH
10/23/93

20 Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Thomas Beatty — Signature: [signature] — Date: Month Day Year [illegible]

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UNIFORM HAZARDOUS WASTE MANIFEST

1 Generator's US EPA ID No. | Manifest Document No. 9 0 0 4 6 | 2 Page 1 of 1 | Information in the shaded areas is not required by Federal law

3 Generator's Name and Mailing Address
Essex Specialty Products
1 [illegible]

4 Generator's Phone (4[illegible]) 1 7[illegible]

5 Transporter 1 Company Name | 6 US EPA ID Number
[illegible] Transportation

7 Transporter 2 Company Name | 8 US EPA ID Number

9 Designated Facility Name and Site Address | 10 US EPA ID Number
Hayes Disposal, Inc.
49500 N. I-94 Service Drive
Belleville, MI 48111

A. State Manifest Document Number: MI 2390425
B. State Generator's ID: S/F
C. State Transporter's ID: [illegible]
D. Transporter's Phone: [illegible]
E. State Transporter's ID:
F. Transporter's Phone:
G. State Facility's ID:
H. Facility's Phone: (313) 697-7[illegible]

	11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID NUMBER)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	N/H
a.	X. HM RQ Hazardous Waste Solid, N.O.S. (contains bis (2-ethyl hexyl) phthalate) [illegible]	1	DT	XXXII B	Y	D [illegible]	
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
App # 3261 [illegible] Trailer Plate & Pa TL28647
Trailer #106

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) [illegible]

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.

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Printed/Typed Name: RAYMOND VAN GEAU | Signature: [signature] | Date: Month Day Year 0 4 1 2 1 3 8 9

17 Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Gordon Bird | Signature: Gordon Bird | Date: Month Day Year 0 4 1 2 1 3 8 9

18 Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: | Signature: | Date: Month Day Year

19. Discrepancy Indication Space
Oil.
1032041

20 Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Thomas [illegible] | Signature: [signature] | Date: Month Day Year 0 4 1 2 1 3 8 9

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1968
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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: [illegible] Manifest Document No: [illegible] 1047
2. Page 1 of 1
Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
Essex Specialty Products
1 Crossman Road, South, Sayreville, New Jersey 08872

4. Generator's Phone ([illegible]) [illegible]

5. Transporter 1 Company Name: Horwith Trucks Incorporated
6. US EPA ID Number: [illegible]

7. Transporter 2 Company Name:
8. US EPA ID Number:

9. Designated Facility Name and Site Address
Wayne Disposal, Inc.
49350 N. I-95 Service Drive
Belleville, MI 48111
10. US EPA ID Number: MID048090[illegible]

A. State Manifest Document Number: MI 2390426
B. State Generator's ID: SNF
C. State Transporter's ID: [illegible]
D. Transporter's Phone: [illegible]
E. State Transporter's ID:
F. Transporter's Phone:
G. State Facility's ID:
H. Facility's Phone: (313) 697-7[illegible]

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).

	HM		12. Containers No	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	N/H
a.	X	RQ Hazardous Waste Solid, N.O.S., [contains bis (2-ethyl hexyl) phthalate] GRM-E NA9183	001	1	XXX18	Y	0023	
b.								
c.								
d.								

J. Additional Descriptions for Materials Listed Above
App # 33591 WB
Trailer #119
Trailer plate # - Pa - TW02728

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 633-6091

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.

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Printed/Typed Name: RAYMOND VERREAU
Signature: Raymond Verreau
Date: Month Day Year: 04 23 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Bill Sweet 2
Signature: Bill [illegible]
Date: Month Day Year: [illegible]

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year:

19. Discrepancy Indication Space
LWH

1033047

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Thomas Brunt
Signature: [illegible]
Date: Month Day Year: 04 24 91

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No | | | | | | | | | | | | | | | | | Manifest Document No. 9 0 8 8

2. Page 1 of

Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
Essex Specialty Products
1 Crossman Road, South, Sayreville, New Jersey 08872

4. Generator's Phone (201) 727-2100

5. Transporter 1 Company Name: Hamilton Trucks Incorporated
6. US EPA ID Number: M D 0 0 6 1 6 3 0 8 1 5

7. Transporter 2 Company Name
8. US EPA ID Number

9. Designated Facility Name and Site Address
Wayne Disposal, Inc.
49350 N. I-94 Service Drive
Belleville, MI 48111
10. US EPA ID Number: M I D 0 4 8 0 9 0 6 3 3 5

A. State Manifest Document Number: MI 2390439
B. State Generator's ID: SNF
C. State Transporter's ID
D. Transporter's Phone
E. State Transporter's ID
F. Transporter's Phone
G. State Facility's ID
H. Facility's Phone: (313) 697-7830

	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER)	HM	12. Containers No	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	N/H
a.	Hazardous Waste Solid, N.O.S., (contains bis (2-ethyl hexyl) phthalate) ORM-E NA9189	X	001	TK	KKB	Y	D001	
b.								
c.								
d.								

J. Additional Descriptions for Materials Listed Above
App # 3591 18 Trailer Plate # - PA TG7705
Trailer # 197

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 621-6091

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.

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Printed/Typed Name: RAYMOND VERGETTA
Signature: Raymond Vergetta
Date: Month 04 Day 17 Year 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Mary Ballinger
Signature: Mary Ballinger
Date: Month 04 Day 17 Year 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Date: Month Day Year

19. Discrepancy Indication Space
OK. 1022039

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Thomas Bruce
Signature
Date: Month 04 Day 17 Year 91

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. | Manifest Document No. 91049 | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
Essex Specialty Products
1 Crossman Road, South, Saginaw, New Jersey [illegible]

4. Generator's Phone ( ) [illegible]

A. State Manifest Document Number: MI 2390440

B. State Generator's ID: [illegible]

5. Transporter 1 Company Name: Jerwith Trucks Incorporated
6. US EPA ID Number: [illegible]

C. State Transporter's ID: [illegible]

D. Transporter's Phone: (800) [illegible]

7. Transporter 2 Company Name:
8. US EPA ID Number:

E. State Transporter's ID:

F. Transporter's Phone:

9. Designated Facility Name and Site Address
Wayne Disposal, Inc.
49350 N. I-96 Service Drive
Belleville, MI 48111

10. US EPA ID Number: [illegible]

G. State Facility's ID:

H. Facility's Phone: (313) 697-7830

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER)	HM		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	N/H
a.	X	RQ Hazardous Waste Solid, N.O.S., [contains bis (2-ethyl hexyl) phthalate] ORM-E [illegible]	[illegible]	[illegible]	XXX18	/	3028	
b.								
c.								
d.								

J. Additional Descriptions for Materials Listed Above
App # 32591 WB Trailer Plate # - Pa TW14607
Trailer # 183

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) [illegible]

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Printed/Typed Name: RAYMOND [illegible] | Signature: [illegible] | Date: Month Day Year 04 23 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: [illegible] | Signature: [illegible] | Date: Month Day Year [illegible]

18. Transporter 2 Acknowledgement or Receipt of Materials
Printed/Typed Name: | Signature: | Date: Month Day Year

19. Discrepancy Indication Space
WH 022-085

20. Facility Owner or Operator. Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Thomas Bunt | Signature: [illegible] | Date: Month Day Year 04 25 91

GENERATOR | TRANSPORTER | FACILITY

EPA Form 8700-22 (Rev. 9/88) PR 5110 Rev. 8/90

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: [illegible] Manifest Document No. 41050

2. Page 1 of 1

Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
Essex Specialty Products
1 Crossman Road, South, Sayreville, New Jersey [illegible]

4. Generator's Phone (201) 727-2100

5. Transporter 1 Company Name: Horwith Trucks Incorporated
6. US EPA ID Number: [illegible]

7. Transporter 2 Company Name:
8. US EPA ID Number:

9. Designated Facility Name and Site Address
Wayne Disposal, Inc.
49350 N. I-96 Service Drive
Belleville, MI 48111
10. US EPA ID Number: [illegible]

A. State Manifest Document Number: MI 2390441
B. State Generator's ID: [illegible]
C. State Transporter's ID: [illegible]
D. Transporter's Phone: [illegible]
E. State Transporter's ID:
F. Transporter's Phone:
G. State Facility's ID:
H. Facility's Phone: (313) 687-7630 [illegible]

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).

	HM		12. Containers No	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	N/H
a.	X	Hg Hazardous Waste Solid, N.O.S., [contains bis (2-ethyl hexyl) phthalate] [illegible]	[illegible]	[illegible]	XXX18	[illegible]	[illegible]	
b.								
c.								
d.								

J. Additional Descriptions for Materials Listed Above
Approval # 32591 LB Trailer Plate # - Pa TN 74985
Trailer 102

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) [illegible]

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Printed/Typed Name: RAYMOND VERSEAU
Signature: [illegible]
Date: Month Day Year: 04 23 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: HAROLD ZIEGENTUS
Signature: Harold Ziegentus
Date: Month Day Year: 04 23 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year:

19. Discrepancy Indication Space
TL. 1033042

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Thomas Burt
Signature: [illegible]
Date: Month Day Year: 04 23 91

EPA Form 8700-22 (Rev. 9/88)

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PR 5110 Rev 9/90

137

Wayne Disposal Lab TEL No.313-[illegible]

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Failure to [illegible] section [illegible] MCL or Section 10 of Act 136 P.A. 1969

2390443

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Form Approved [illegible]

UNIFORM HAZARDOUS WASTE MANIFEST

1 Generator's US EPA ID No. | Manifest Document No. | 2 Page 1 of 1 | Information in the shaded areas is not required by Federal law

3 Generator's Name and Mailing Address
Essex Specialty Products
1 Crossman Road, South, Sayreville, [illegible]

4 Generator's Phone (201) [illegible]

5 Transporter 1 Company Name: Hanwin Trucks Incorporated | 6 US EPA ID Number

7 Transporter 2 Company Name: Mola/Mitchko Trucking | 8 US EPA ID Number: NJ 000027792 62

9 Designated Facility Name and Site Address
Wayne Disposal, Inc.
49350 N. I-96 Service Drive
Belleville, MI 48111

10 US EPA ID Number

A. [illegible]
B. State Generator's ID: [illegible]
C. State Transporter's ID: NJ[illegible]
D. Transporter's Phone: (800) [illegible]
E. State Transporter's ID: 57085
F. Transporter's Phone: 201-[illegible]
G. State Facility's ID: [illegible]
H. Facility's Phone: (3[illegible])

11 US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER)

	HM		12 Containers No.	Type	13 Total Quantity	14 Unit Wt/Vol	I. Waste No.	
a	X	[illegible] (2-ethyl hexyl) [illegible]	[illegible]	[illegible]	[illegible]	Yd	[illegible]	
b								
c								
d								

J. Additional Descriptions for Materials Listed Above
App # 32[illegible] [illegible] NJ 14[illegible]
Trailer # 34-1

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15 Special Handling Instructions and Additional Information
24 Hour Emergency Response [illegible]

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.

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Printed/Typed Name: Raymond [illegible] | Signature: [illegible] | Date Month Day Year: 05 07 97

17 Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Tony Scinto | Signature: Tony Scinto | Date Month Day Year: 05 07 97

18 Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: Tony Scinto | Signature: Tony Scinto | Date Month Day Year: 05 07 97

19 Discrepancy Indication Space
J-6

20 Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name: K Bowers | Signature: K Bowers | Date Month Day Year: 5 08 97

Form 8700-22 (Rev. 9/88)

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: NJD007165157 — Manifest Document No

2. Page 1 of 1 — Information in the shaded areas is not required by Federal law

A. State Manifest Document Number: MI 2390438

B. State Generator's ID

3. Generator's Name and Mailing Address: Essex Specialty Products, 1 Crossman Road, South, Sayreville, New Jersey 08872

4. Generator's Phone (201) 721-210

C. State Transporter's ID: NJDEPS7110

D. Transporter's Phone: (800) 456-6007

5. Transporter 1 Company Name: Horvath Trucks Incorporated — 6. US EPA ID Number: PA D 0 9 6 4 3 3 3 1 1

E. State Transporter's ID: NJ DEPS7093

7. Transporter 2 Company Name: Mola T/A Mitchko — 8. US EPA ID Number: NJ D 0 0 2 7 7 8 2 6 2

F. Transporter's Phone: 201-334-3700

9. Designated Facility Name and Site Address: Wayne Disposal, Inc., 49350 N. I-94 Service Drive, Belleville, MI 48111 — 10. US EPA ID Number: M I D 0 0 4 3 9 0 9 0 6 3 5

G. State Facility's ID

H. Facility's Phone: (313) 697-7830

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER)	HM	12. Containers No	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	N/H
a. RQ Hazardous Waste Solid, N.O.S., (contains bis (2-ethyl hexyl) phthalate)	X	01	CT	00001	YD	D012	
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above: App # 32591 IB — Trailer Plate Number NJ T712-BA — Trailer Number 34-2

K. Handling Codes for Wastes Listed Above: a/ b/ c/ d/

15. Special Handling Instructions and Additional Information: 24 Hour Emergency Response Number (800) 424-5991

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.

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Printed/Typed Name: RAYMOND YERGIAN — Signature: [signature] — Date (Month Day Year): 10 15 07 91

17. Transporter 1 Acknowledgement of Receipt of Materials — Printed/Typed Name: Tony DeMarcky — Signature: [signature] — Date (Month Day Year): 10 15 07 91

18. Transporter 2 Acknowledgement of Receipt of Materials — Printed/Typed Name: Tony DeMarcky — Signature: [signature] — Date (Month Day Year): 10 15 07 91

19. Discrepancy Indication Space: 10224/2 — J.L.

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. — Printed/Typed Name: [signature] — Signature: [signature] — Date (Month Day Year): 10 08 91

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UNIFORM HAZARDOUS WASTE MANIFEST

1 Generator's US EPA ID No | Manifest Document No

2 Page 1 of 1

Information in the shaded areas is not required by Federal law

3 Generator's Name and Mailing Address
Essex Specialty Products
1 Crossman Road, South, Sayreville, New Jersey

A. State Manifest Document Number
MI 2390435

B. State Generator's ID
SVE

4 Generator's Phone (201) 727-[illegible]

5 Transporter 1 Company Name
Horvath Trucks Incorporated

6 US EPA ID Number

C. State Transporter's ID

D. Transporter's Phone

7 Transporter 2 Company Name

8 US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9 Designated Facility Name and Site Address
Wayne Disposal, Inc.
49350 N. I-94 Service Drive
Belleville, MI 48111

10 US EPA ID Number

G. State Facility's ID

H. Facility's Phone
(313) 697-7[illegible]

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).	HM	12. Containers No.	Type	13 Total Quantity	14 Unit Wt/Vol	I. Waste No.	N/H
a. RQ Hazardous Waste Solid, N.O.S., [contains bis (2-ethyl hexyl) phthalate] (NE 9183)	X	[illegible]	[illegible]	XXXX1/B	[illegible]	[illegible]	
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
App # 3259118 Trailer Plate # A TAB4346
Trailer 1107

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
24 Hr Emergency Response Phone (313) [illegible]

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Printed/Typed Name: RAYMOND YERGEAU
Signature: [illegible]
Date: Month Day Year 09 01 [illegible]

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Timothy J. Navatier
Signature: Timothy J. Navatier
Date: Month Day Year 09 01 [illegible]

18 Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space
J.L. 10/24/08

20 Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Thomas Bu[illegible]
Signature: [illegible]
Date: Month Day Year [illegible]

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UNIFORM HAZARDOUS WASTE MANIFEST

1 Generator's US EPA ID No | Manifest Document No
2 Page 1 of 1
Information in the shaded areas is not required by Federal law

3 Generator's Name and Mailing Address
Essex Specialty Products
1 Crossman Road, South, Sayreville, New Jersey

A. State Manifest Document Number: MI 2390434
B. State Generator's ID: SNE

4 Generator's Phone

5 Transporter 1 Company Name: Horvath Trucks Incorporated
6 US EPA ID Number
C. State Transporter's ID
D. Transporter's Phone

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9 Designated Facility Name and Site Address
Wayne Disposal, Inc.
49350 N. I-94 Service Drive
Belleville, MI 48111
10. US EPA ID Number
G. State Facility's ID
H. Facility's Phone: (313) 697-7830

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).

	HM	11. US DOT Description	12. Containers No	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	N/H
a.	X	NJ Hazardous Waste Solid, N.O.S., (contains bis (2-ethyl hexyl) phthalate) UN-E NA9189	1	TK	XXXX	18	Y	
b.								
c.								
d.								

J. Additional Descriptions for Materials Listed Above
App # 3260143 Trailer Plate Number PA TW26420
Trailer 8/8

K. Handling Codes for Wastes Listed Above
a/ 1
b/ 1
c/ 1
d/ 1

15. Special Handling Instructions and Additional Information
24 Hour Emergency Number (201) 621-6011

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.

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Printed/Typed Name: Raymond Vergeson
Signature: [signature]
Date: Month Day Year 04 24 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Lester P. Snyder
Signature: Lester P. Snyder
Date: Month Day Year 04 24 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Date: Month Day Year

19. Discrepancy Indication Space
TL
1022076

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Thomas Bru[illegible]
Signature: [signature]
Date: Month Day Year 04 25 91

GENERATOR — TRANSPORTER — DESIGNATED FACILITY

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. | Manifest Document No. 7 / 1 / 7 | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
[illegible] Products
[illegible], Sayreville, New Jersey [illegible]

4. Generator's Phone ( ) [illegible]

5. Transporter 1 Company Name | 6. US EPA ID Number
[illegible]

7. Transporter 2 Company Name | 8. US EPA ID Number

9. Designated Facility Name and Site Address | 10. US EPA ID Number
[illegible] Disposal, Inc.
[illegible] Service Drive
Belleville, MI 48111

A. State Manifest Document Number: MI 2390363
B. State Generator's ID: Same
C. State Transporter's ID: NJDEPS7110
D. Transporter's Phone: (800) 456-6307
E. State Transporter's ID:
F. Transporter's Phone:
G. State Facility's ID:
H. Facility's Phone: (313) 697-7830

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).

	HM		12. Containers No	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	N/H
a.	X	Hazardous Waste Solid, N.O.S., (contains bis (2-ethyl hexyl) phthalate) [illegible]	[illegible]	[illegible]	XXX18	[illegible]	[illegible]	
b.								
c.								
d.								

J. Additional Descriptions for Materials Listed Above
App # [illegible] Trailer Plate # Pa TU40961
Trailer # 117

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 623-6091

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.

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Printed/Typed Name: RAYMOND VOGEAN | Signature: Raymond Vogean | Date: Month 04 Day 14 Year 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: DAVID B. BRYFOGLE | Signature: David B. Bryfogle | Date: Month 04 Day 24 Year 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: | Signature: | Date: Month Day Year

19. Discrepancy Indication Space
TL.
1023058

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: [illegible] | Signature: [illegible] | Date: Month 04 Day 25 Year 91

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: M I D 0 0 5 2 5 6 7 1 5 Manifest Document No: 1 1 1 1 1 1

2. Page 1 of 1

Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
Essex Specialty Products
1 Crossman Rd, South, Sayreville, New Jersey 08872

4. Generator's Phone (201) 727-2100

5. Transporter 1 Company Name: Leavitt Trucks Incorporated
6. US EPA ID Number: P A D 0 6 4 0 3 5 8 1 9

7. Transporter 2 Company Name
8. US EPA ID Number

9. Designated Facility Name and Site Address
Wayne Disposal, Inc.
4626 N. I-94 Service Drive
Belleville, MI 48111
10. US EPA ID Number: M I D 0 0 4 8 0 9 0 6 3 3

A. State Manifest Document Number: MI 2390360
B. State Generator's ID: SAE
C. State Transporter's ID: NJEPS/110
D. Transporter's Phone: (800) 456-8307
E. State Transporter's ID
F. Transporter's Phone
G. State Facility's ID
H. Facility's Phone: (313) 697-7030

	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).	HM	12. Containers No	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	N/H
a.	RQ Hazardous Waste Solid, N.O.S., (contains bis (2-ethyl hexyl) phthalate) UN-E NA9189	X	0 0 1	DT	55,000	W	D 0 2 8	
b.								
c.								
d.								

J. Additional Descriptions for Materials Listed Above
MW # 3391130 Trailer Plate Number CA TV46589
Trailer Number 116

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 620-6091

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.

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Printed/Typed Name: RAYMOND YERGEAU
Signature: Raymond Yergeau
Date: Month 04 Day 12 Year 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: EARLE MECKES
Signature: Earle Meckes
Date: Month 04 Day 24 Year 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Date: Month Day Year

19. Discrepancy Indication Space
I.L. 10220163

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Thomas Brett
Signature
Date: Month 04 Day 25 Year 91

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: [illegible] Manifest Document No: [illegible]
2. Page 1 of 1
Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
Essex Specialty Products
1 Crossman Road, South, Sayreville, New Jersey 08872

4. Generator's Phone (201) 727-2[illegible]

A. State Manifest Document Number: MI 2390359
B. State Generator's ID: SAME

5. Transporter 1 Company Name: Meredith Trucks Incorporated
6. US EPA ID Number: PA[illegible]
C. State Transporter's ID: NJDEPS7110
D. Transporter's Phone: (800) 456-8807

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Wayne Disposal, Inc.
49350 N. I-96 Service Drive
Belleville, MI 48111
10. US EPA ID Number: MI[illegible]
G. State Facility's ID:
H. Facility's Phone: (313) 697-7830

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).

	HM		12 Containers No	Type	13 Total Quantity	14 Unit Wt/Vol	I. Waste No.	N/H
a.	X	NQ Hazardous Waste Solid, N.O.S., [contains bis (2-ethyl hexyl) phthalate] 9MM-E NA0182	001	DT	XXX18	YD	0028	
b.								
c.								
d.								

J. Additional Descriptions for Materials Listed Above
App # 3[illegible] Trailer Plate # R TN75017
Trailer #179

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 628-5[illegible]

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Printed/Typed Name: RAYMOND VERGEAU
Signature: [signature]
Date: Month Day Year 04 24 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Lamont Getz
Signature: Lamont Getz
Date: Month Day Year 04 24 91

18. Transporter 2 Acknowledgement or Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space
LWH
#1022056

20. Facility Owner or Operator. Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: [signature]
Signature: [signature]
Date: Month Day Year 04 25 91

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No | Manifest Document No 191101[illegible]
2. Page 1 of 1
Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
[illegible], Sylvania, [illegible]
4. Generator's Phone ( ) 72[illegible]

A. State Manifest Document Number: MI 2390357
B. State Generator's ID: SWE

5. Transporter 1 Company Name: [illegible]
6. US EPA ID Number: [illegible]
C. State Transporter's ID: [illegible]
D. Transporter's Phone: (800) 45[illegible]

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address: [illegible]
10. US EPA ID Number: [illegible]
G. State Facility's ID
H. Facility's Phone: (313) 697-7830

	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM	12. Containers No	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	N/H
a.	[illegible] Solid, n.o.s., [illegible]	[illegible]	[illegible]	XXX 118	Y	D 001 D 018	
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
[illegible] Trailer Place 12 -TM4E-7
Trailer 172

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
[illegible] (800) 628-[illegible]

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.

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Printed/Typed Name: [illegible] | Signature: [illegible] | Date Month Day Year: 04 12 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Roger Ballet | Signature: Roger Ballet | Date Month Day Year: 04 12 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Date Month Day Year

19. Discrepancy Indication Space
LWH
1022060

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: [illegible] | Signature: [illegible] | Date Month Day Year: 04 15 91

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: [illegible] Manifest Document No: [illegible]
2. Page 1 of 1
Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address: [illegible] Products, [illegible] South, Sayreville, New Jersey 08872
4. Generator's Phone ([illegible]) [illegible]
5. Transporter 1 Company Name: [illegible]
6. US EPA ID Number: [illegible]
7. Transporter 2 Company Name:
8. US EPA ID Number:
9. Designated Facility Name and Site Address: [illegible] Service Drive, Belleville, MI 48111
10. US EPA ID Number: [illegible]

A. State Manifest Document Number: MI 2390356
B. State Generator's ID: Same
C. State Transporter's ID: [illegible]
D. Transporter's Phone: [illegible]
E. State Transporter's ID:
F. Transporter's Phone:
G. State Facility's ID:
H. Facility's Phone: (313) 697-7300

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).	HM		12. Containers No	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	N/H
a.	X	[illegible] Hazardous Waste Solid, N.O.S., (contains bis (2-[illegible] hexyl) phthalate) [illegible]	001	[illegible]	XXX18	YD	0028	
b.								
c.								
d.								

J. Additional Descriptions for Materials Listed Above: App # [illegible] Trailer Plate # TS78934 Trailer # 198

K. Handling Codes for Wastes Listed Above: a/ / b/ / c/ / d/ /

15. Special Handling Instructions and Additional Information: [illegible] Response Number (800) 628-6001

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.

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Printed/Typed Name: [illegible] Signature: [illegible] Date: Month Day Year: [illegible]

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Gore Zaranko Signature: Gore Zaranko Date: Month Day Year: 04 24 91

18. Transporter 2 Acknowledgement or Receipt of Materials
Printed/Typed Name: Signature: Date: Month Day Year:

19. Discrepancy Indication Space: [illegible] #1022084

20. Facility Owner or Operator. Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: [illegible] Signature: [illegible] Date: Month Day Year: [illegible]

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Form Approved OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. | Manifest Document No. [illegible]
2. Page 1 of 1

Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
[illegible]
[illegible]

4. Generator's Phone ( ) [illegible]

A. State Manifest Document Number: MI 2390351

B. State Generator's ID: [illegible]

5. Transporter 1 Company Name: [illegible]
6. US EPA ID Number: [illegible]

C. State Transporter's ID: [illegible]

D. Transporter's Phone: [illegible]

7. Transporter 2 Company Name:
8. US EPA ID Number:

E. State Transporter's ID:

F. Transporter's Phone:

9. Designated Facility Name and Site Address
[illegible]
[illegible]
[illegible]

10. US EPA ID Number: [illegible]

G. State Facility's ID:

H. Facility's Phone: (313) 697-7330

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).	HM		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	N/H
a.	X	[illegible] Waste Solid, N.O.S., [illegible] bis [illegible]	[illegible]	[illegible]	XXXX18	[illegible]	[illegible]	
b.								
c.								
d.								

J. Additional Descriptions for Materials Listed Above
[illegible] Trailer Place # [illegible] 1595128
Trailer # 174

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
[illegible] (800) [illegible]

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 [illegible] according to applicable international and national government regulations.

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Printed/Typed Name: [illegible] | Signature: [illegible] | Date: Month Day Year: [illegible]

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: [illegible] | Signature: [illegible] | Date: Month Day Year: [illegible]

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: | Signature: | Date: Month Day Year:

19. Discrepancy Indication Space
[illegible]
1022083

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: [illegible] | Signature: [illegible] | Date: Month Day Year: [illegible]

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: [illegible]
Manifest Document No: [illegible]
2. Page 1 of 1
Information in the shaded areas is not required by Federal law

A. State Manifest Document Number: MI 2390361

3. Generator's Name and Mailing Address: [illegible]
B. State Generator's ID:

4. Generator's Phone: [illegible]
5. Transporter 1 Company Name: [illegible]
6. US EPA ID Number: [illegible]
C. State Transporter's ID: [illegible]
D. Transporter's Phone: [illegible]

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address: [illegible]
10. US EPA ID Number: [illegible]
G. State Facility's ID:
H. Facility's Phone: (313) [illegible]

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER)	HM	12. Containers No	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. [illegible] Hazardous waste solid, N.O.S., [contains bis ...] [illegible]		[illegible]	DT	[illegible]	Y	[illegible]
b.						
c.						
d.						

J. Additional Descriptions for Materials Listed Above
[illegible] Trailer Plate PA TL28647
Trailer #106

K. Handling Codes for Wastes Listed Above
a/ 1
b/ 1
c/ 1
d/ 1

15. Special Handling Instructions and Additional Information
[illegible]

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.

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Printed/Typed Name: RAYMOND YERGEAN
Signature: Raymond Yergean
Date (Month Day Year): [illegible]

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Gordon Bird
Signature: Gordon Bird
Date (Month Day Year): [illegible]

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date (Month Day Year):

19. Discrepancy Indication Space
J.L.
1022426

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: K. [illegible]
Signature: [illegible]
Date (Month Day Year): 05 [illegible] 91

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UNIFORM HAZARDOUS WASTE MANIFEST

1 Generator's US EPA ID No: M I D 0 0 7 1 1 0 7 9 0 6 Manifest Document No.

2 Page 1 of 1

Information in the shaded areas is not required by Federal law

3 Generator's Name and Mailing Address
Essex Specialty Products
1 Crossman Road, South, Sayreville, New Jersey 08872

A. State Manifest Document Number: MI 2390442

B. State Generator's ID: SAME

4 Generator's Phone (201) 727-2100

5 Transporter 1 Company Name: Hunter Trucks Incorporated
6 US EPA ID Number: P A D 0 0 6 0 0 3 5 3 1 0

C. State Transporter's ID: [illegible]

D. Transporter's Phone (800) [illegible]

7 Transporter 2 Company Name: MOLA TRUCKING T/A MITCHKO
8 US EPA ID Number: N J D 0 0 2 1 7 1 9 2 6 2

E. State Transporter's ID: NJ SEP 57095

F. Transporter's Phone 201-334-3700

9 Designated Facility Name and Site Address: Wayne Disposal, Inc.
49350 N. I-94 Service Drive
Belleville, MI 48111
10 US EPA ID Number: M I D 0 0 4 8 0 9 0 6 3 3

G. State Facility's ID

H. Facility's Phone (313) 697-7830

	11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID NUMBER). HM		12. Containers No	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	N/H
a.	X	NA Hazardous Waste Solid, N.O.S., (contains bis (2-ethyl hexyl) phthalate) ORM-E NA9189	001	DT	2 X X 1 8	YD	D 0 2 8	
b.								
c.								
d.								

J. Additional Descriptions for Materials Listed Above
App # 32591 MI Trailer Plate # NJ 238-754
Trailer # 321

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
Emergency 24 Hr Response Number (800) 526-6201

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.

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Printed/Typed Name: [illegible] Signature: [illegible] Date (Month Day Year): 05 07 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: TERRY M. ULMER Signature: Terry M. Ulmer Date (Month Day Year): 05 07 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: TERRY M. ULMER Signature: Terry M. Ulmer Date (Month Day Year): 05 07 91

19. Discrepancy Indication Space
Job #1022410

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name: [illegible] Signature: [illegible] Date (Month Day Year): 05 08 91

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UNIFORM HAZARDOUS WASTE MANIFEST

1 Generator's US EPA ID No | | | | | | | | | | | | Manifest Document No. 9 7 5 6 3

2 Page 1 of 1

Information in the shaded areas is not required by Federal law

3 Generator's Name and Mailing Address
Essex Specialty Products
1 Crossman Road, South, Saylesville, New Jersey 0327

A. State Manifest Document Number MI 2390443

B. State Generator's ID SAE

4 Generator's Phone (201) 727-7101

5 Transporter 1 Company Name: Horwith Trucks Incorporated
6 US EPA ID Number: P A D 0 6 4 0 3 5 8 1 9

C. State Transporter's ID 10025711

D. Transporter's Phone (201) 456-8507

7 Transporter 2 Company Name: Mola/Mitchke Trucking
8 US EPA ID Number: N J D 0 0 2 7 1 7 9 2 6 2

E. State Transporter's ID 57095

F. Transporter's Phone 201 334-3200

9 Designated Facility Name and Site Address
Wayne Disposal, Inc.
49350 N. I-94 Service Drive
Belleville, MI 48111
10 US EPA ID Number: M I D 0 4 8 0 9 0 6 0 3

G. State Facility's ID

H. Facility's Phone (313) 697-7630

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).	HM		12. Containers No	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	N/H
a.	X	RQ Hazardous Waste Solid, N.O.S., (contains bis (2-ethyl hexyl) phthalate) UN#9188	001		XXXX 18	Yu	U028	
b.								
c.								
d.								

J. Additional Descriptions for Materials Listed Above
App # 32591 NJ Trailer Plate # NJ 749365
Trailer # 134-1

K. Handling Codes for Wastes Listed Above
a/ 1
b/ 1
c/ 1
d/ 1

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 620-6091

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.

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Printed/Typed Name: RAYMOND YERGEN | Signature: Raymond Yergen | Date Month Day Year: 05 07 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Tony Scinto | Signature: Tony Scinto | Date Month Day Year: 05 07 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: Tony Scinto | Signature: Tony Scinto | Date Month Day Year: 05 07 91

19. Discrepancy Indication Space
T.L.

20 Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name | Signature | Date Month Day Year

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. | Manifest Document No.
2. Page 1 of 1

Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
Essex Specialty Products
1 Crossman Road, South, Sayreville, New Jersey [illegible]

4. Generator's Phone (201) 727-2[illegible]

5. Transporter 1 Company Name: Hewitt Trucks Incorporated
6. US EPA ID Number

7. Transporter 2 Company Name
8. US EPA ID Number

9. Designated Facility Name and Site Address
Wayne Disposal, Inc.
49350 N. I-94 Service Drive
Belleville, MI 48111
10. US EPA ID Number: M I D 0 4 8 0 9 0 6 3 3

A. State Manifest Document Number: MI 2390444
B. State Generator's ID: [illegible]
C. State Transporter's ID: [illegible]
D. Transporter's Phone: ([illegible]) [illegible]
E. State Transporter's ID
F. Transporter's Phone
G. State Facility's ID
H. Facility's Phone: (313) 697-[illegible]

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).	HM	12. Containers No	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	N/H
a. NQ Hazardous Waste Solid, N.O.S. [illegible] (2-ethyl hexyl) phthalate] [illegible]	X	001	DT	XXX11B	Y	D012	
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
App # 32591 WB Trailer Plate # TV46539
Trailer # 116

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 628-6091

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.

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Printed/Typed Name: RAY MOND VERGLEAU | Signature: [illegible] | Date: Month Day Year 05 07 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: [illegible] | Signature | Date: Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: John J. Fox | Signature: [illegible] | Date: Month Day Year 05 07 91

19. Discrepancy Indication Space
J.L.
#1092503

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: [illegible] | Signature: [illegible] | Date: Month Day Year 07 08 91

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: [illegible] Manifest Document No: [illegible]
2. Page 1 of 1
Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
Essex Specialty Products
1 Crossman Road, South, Sayreville, New Jersey, [illegible]

4. Generator's Phone (201) 727-2100

A. State Manifest Document Number: MI 2390445
B. State Generator's ID: SAE

5. Transporter 1 Company Name: Hamith Trucks Incorporated
6. US EPA ID Number: [illegible]
C. State Transporter's ID: [illegible]
D. Transporter's Phone: (800) [illegible]

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Wayne Disposal Inc.
49350 N. I-96 Service Drive
Belleville, MI 48111
10. US EPA ID Number: [illegible]
G. State Facility's ID:
H. Facility's Phone: (313) 697-7330

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).	HM		12. Containers No	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	N/H
a.	X	RQ Hazardous Waste Solid, N.O.S., [contains bis (2-ethyl hexyl) phthalate] ON-[illegible]	01	01	XXX18	Y0	0026	
b.								
c.								
d.								

J. Additional Descriptions for Materials Listed Above
App # 32591 W3 Trailer Plate # PA TT12586
Trailer # 196

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 628-0091

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.

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Printed/Typed Name: RAYMOND YEDGEAU
Signature: [signature]
Date: Month Day Year: 05 07 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: KEITH PRITZ
Signature: [signature]
Date: Month Day Year: 05 07 91

18. Transporter 2 Acknowledgement or Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year:

19. Discrepancy Indication Space
J.C. #1022409

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: [illegible]
Signature: [signature]
Date: Month Day Year: 05 08 91

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UNIFORM HAZARDOUS WASTE MANIFEST

1 Generator's US EPA ID No | Manifest Document No. 9 1 2 K K

2 Page 1 of 1

Information in the shaded areas is not required by Federal law

3 Generator's Name and Mailing Address
Essex Specialty Products
1 Crossian Road, South, Saynerville, [illegible]
4 Generator's Phone (3[illegible]) 7[illegible]

A. State Manifest Document Number
MI 2390446

B. State Generator's ID
SHE

5 Transporter 1 Company Name
[illegible] Trucks Incorporated
6 US EPA ID Number

C. State Transporter's ID
D. Transporter's Phone (3[illegible]) [illegible]

7 Transporter 2 Company Name
8 US EPA ID Number

E. State Transporter's ID
F. Transporter's Phone

9 Designated Facility Name and Site Address
Wayne Disposal, Inc.
49350 N. I-94 Service Drive
Belleville, MI 48111
10 US EPA ID Number

G. State Facility's ID
H. Facility's Phone (313) 697-7[illegible]

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).	HM		12 Containers No	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	N/H
a.	X	NQ Hazardous Waste Solid, n.o.s., (contains bis (2-ethyl hexyl) phthalate) ORHE [illegible]	1 1	T	1 8	Y	[illegible]	
b.								
c.								
d.								

J. Additional Descriptions for Materials Listed Above
App # Trailer Plate # PA TW02731
Trailer #20

K. Handling Codes for Wastes Listed Above
a/ 1
b/ 1
c/ 1
d/ 1

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Phone (800) [illegible]

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.

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Printed/Typed Name: RAYMOND VERZETA | Signature: [illegible] | Date: Month Day Year 05 07 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature: [illegible] | Date: Month Day Year 05 07 91

18 Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Date: Month Day Year

19. Discrepancy Indication Space
Tid 10/22/02

20 Facility Owner or Operator. Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Thomas [illegible] | Signature: [illegible] | Date: Month Day Year 10 22 02

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: MI 0 0 0 6 2 5 1 2 7 1 5 Manifest Document No. 7 7 0 0 1 7
2. Page 1 of 1
Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
Essex Specialty Products
1 Crossmarsh Road, South Sayreville, New Jersey 08872
4. Generator's Phone (201) 727-2100

A. State Manifest Document Number: MI 2390447
B. State Generator's ID: SNE

5. Transporter 1 Company Name: Horwith Trucks Incorporated
6. US EPA ID Number: P M D 0 0 5 0 3 5 8 1 9
C. State Transporter's ID: [illegible]
D. Transporter's Phone: [illegible]

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Wayne Disposal, Inc.
49350 N. I-94 Service Drive
Belleville, MI
10. US EPA ID Number: M I D 0 4 8 0 9 0 6 3 5
G. State Facility's ID:
H. Facility's Phone: (313) 697-7030

	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).	HM	12. Containers No	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	N/H
a.	RQ Hazardous Waste Solid, N.O.S., [contains bis (2-ethyl hexyl) phthalate] ORM-E NA9138	X	0 1	DT	XXXXE	YU	D028	
b.								
c.								
d.								

J. Additional Descriptions for Materials Listed Above
App # Trailer Plate # Pq
Trailer #102

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 628-0091

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.

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Printed/Typed Name: RAYMOND YERGEAU
Signature: [signature]
Date: Month Day Year 05 01 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: HAROLD ZIEGENFUS
Signature: [signature]
Date: Month Day Year 05 01 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space
O.L #1022141

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Ronald Cowton
Signature: [signature]
Date: Month Day Year 05 09 91

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Form Approved OMB No 2050-0039 Expires 8-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: MI 0 0 0 2 5 0 0 7 1 5 7 0 6 8
Manifest Document No
2. Page 1 of 1
Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
Essex Specialty Products
1 Crossman Road, South, Sayreville, New Jersey 08872
4. Generator's Phone (201) 727-2100

A. State Manifest Document Number: MI 2390448
B. State Generator's ID: SHE

5. Transporter 1 Company Name: Ibrahim Trucks Incorporated
6. US EPA ID Number: P A D 0 0 5 0 3 5 5 1 9
C. State Transporter's ID: [illegible]
D. Transporter's Phone: (800) 450-2007

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
Wayne Disposal, Inc.
49350 N. I-94 Service Drive
Belleville, MI 48111
10. US EPA ID Number: M I D 0 0 4 8 0 9 0 6 3 3
G. State Facility's ID
H. Facility's Phone: (313) 697-7030

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID NUMBER)	HM	12. Containers No	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	N/H
a. RQ Hazardous Waste Solid, N.O.S., (contains bis (2-ethyl hexyl) phthalate) GHE NA9188	X	001	DT	00018	YD	D023	
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
App # [illegible]
Trailer #179
Trailer Plate # PA PN75017

K. Handling Codes for Wastes Listed Above
a/
b/
c/
d/

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 628-6091

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Printed/Typed Name: RAYMOND VERGENU
Signature: [signature]
Date: Month Day Year: 1 5 0 9 9 1

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Lamont Getz
Signature: [signature]
Date: Month Day Year: 0 5 0 9 9 1

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Date: Month Day Year

19. Discrepancy Indication Space
T.L #1022443

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: [illegible]
Signature: [signature]
Date: Month Day Year: 0 5 0 9 9 1

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. N J D 0 0 2 0 0 4 1 1 5 — Manifest Document No. 7 1 2 1
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
Essex Specialty Products
1 Crossman Road, South, Sayreville, New Jersey, 08872

A. State Manifest Document Number: MI 2390449

4. Generator's Phone (201) 727-2100

B. State Generator's ID: SAE

5. Transporter 1 Company Name: Horvith Trucks Incorporated
6. US EPA ID Number: P A D 0 0 5 0 3 0 3 1 9
C. State Transporter's ID: NJ EPS/110
D. Transporter's Phone: (609) 456-6617

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
Wayne Disposal, Inc.
49350 N. I-94 Service Drive
Belleville, MI 48111
10. US EPA ID Number: M I D 0 6 4 1 5 9 0 3 1 3
G. State Facility's ID
H. Facility's Phone: (313) 697-7000

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER)

	HM	11. US DOT Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	N/H
a.	X	RQ Hazardous Waste Solid, N.O.S., [contains bis (2-ethyl hexyl) phthalate] UN-E NA9188	001	LT	00210	P	D028	
b.								
c.								
d.								

J. Additional Descriptions for Materials Listed Above
App # 3259WB Trailer Plate # TS 29286-PA
Trailer # 187

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 628-6001

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.

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Printed/Typed Name: RAYMOND YERGEAU — Signature: [signature] — Date: Month Day Year 0 5 1 8 9 1

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: NORMAN P RICE — Signature: Norman P. Rice — Date: Month Day Year 0 5 0 8 9 1

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date: Month Day Year

19. Discrepancy Indication Space
1022427

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Thomas Bu... — Signature: [signature] — Date: Month Day Year 0 5 1 9 9 1

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: MID 980 795 170
Manifest Document No:

2. Page 1 of 1

Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
Essex Specialty Products
1 Crossroads Drive, South, Sayreville, New Jersey USA

A. State Manifest Document Number: MI 2390450

B. State Generator's ID: SME

4. Generator's Phone (201) 727-2100

5. Transporter 1 Company Name: Horvith Trucks Incorporated
6. US EPA ID Number:

C. State Transporter's ID:

D. Transporter's Phone:

7. Transporter 2 Company Name:
8. US EPA ID Number:

E. State Transporter's ID:

F. Transporter's Phone:

9. Designated Facility Name and Site Address
Wayne Disposal, Inc.
49350 N. I-94 Service Drive
Belleville, MI 48111
10. US EPA ID Number: MID 048 090 633

G. State Facility's ID:

H. Facility's Phone: (313) 697-7000

	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).	12. Containers No	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	N/H
GENERATOR a.	X HM RQ Hazardous Waste Solid, N.O.S., (contains DIS (2-ethyl hexyl) phthalate) 6H+C NA9188	01	DM	1415	P	D023	
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
App # 3259143 Trailer Lic. Plate PA TN48139
Trailer #180

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 626-0191

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.

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Printed/Typed Name: RAYMOND YERGEAU
Signature: [signature]
Date (Month Day Year): 01 31 91

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Craig Doyle
Signature: [signature]
Date (Month Day Year): 05 08 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date (Month Day Year):

FACILITY

19. Discrepancy Indication Space
GL 10 CC 4/29

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Thomas Bu[illegible]
Signature: [signature]
Date (Month Day Year): 05 09 91

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PR 5150 Rev. 9/90

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: MI 0 0 0 0 2 5 6 8 7 1 9 — Manifest Document No: [illegible]
2. Page 1 of 1
Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
Essex Specialty Products
1 Crossman Road, South, Sayreville, New Jersey, 08872

4. Generator's Phone (201) 727-2180

A. State Manifest Document Number: MI 2449151

B. State Generator's ID: SAME

5. Transporter 1 Company Name: Hurwith Trucks Incorporated
6. US EPA ID Number: PAD064035819

C. State Transporter's ID: NQUEPS7110

D. Transporter's Phone: (800)456-8807

7. Transporter 2 Company Name:
8. US EPA ID Number:

E. State Transporter's ID:

F. Transporter's Phone:

9. Designated Facility Name and Site Address
Wayne Disposal, Inc.
49350 N. I. Service Drive
Belleville, MI 48111

10. US EPA ID Number: MID048090633

G. State Facility's ID:

H. Facility's Phone: (313) 697-7830

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).	HM		12 Containers No	Type	13 Total Quantity	14. Unit Wt/Vol	I. Waste No.	N/H
a.	X	Rq Hazardous Waste Solid, N.O.S. [contains bis (2-ethyl hexyl) phthalate] ORM-E NA9188	001	DT	XXX18	YD	0028	
b.								
c.								
d.								

J. Additional Descriptions for Materials Listed Above
Approval # 32591 WB Trailer Plate #1 TM48690
Trailer # 172

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 628-6091

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Printed/Typed Name: RAYMOND YERGEAU — Signature: Raymond Yergeau — Date: Month Day Year 050891

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Roger Balliet — Signature: Roger Balliet — Date: Month Day Year 050891

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date: Month Day Year

19. Discrepancy Indication Space
J.C. #1022442

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name: [illegible] Compton — Signature: [illegible] — Date: Month Day Year 050991

EPA Form 8700-22 (Rev. 9/88)

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PR 5110 Rev. 9/90

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UNIFORM HAZARDOUS WASTE MANIFEST

1 Generator's US EPA ID No: NJ000258871 Manifest Document No: 5 9 4 3 7

2 Page 1 of 1

Information in the shaded areas is not required by Federal law

A. State Manifest Document Number: MI 2449152

B. State Generator's ID: SAME

C. State Transporter's ID: NODEPS7110

D. Transporter's Phone: (800) 456-8007

E. State Transporter's ID:

F. Transporter's Phone:

G. State Facility's ID:

H. Facility's Phone: (313) 697-7830

3 Generator's Name and Mailing Address
Essex Specialty Products
1 Crossman Road, Sayreville, New Jersey, 08872

4 Generator's Phone (201) 727-2100

5 Transporter 1 Company Name: Horwith Trucks Incorporated

6 US EPA ID Number: RAD064035819

7 Transporter 2 Company Name:

8 US EPA ID Number:

9 Designated Facility Name and Site Address
Wayne Disposal, Inc.
49350 N. I-95 Service Drive
Belleville, MI 48111

10 US EPA ID Number: MID048090033

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).	HM		12. Containers No	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	N/H
a.	X	RQ Hazardous Waste Solid, N.O.S., [contains bis (2-ethyl hexyl) phthalate] ORM-E NA9188	001	DT	xxx18	YD	4028	
b.								
c.								
d.								

J. Additional Descriptions for Materials Listed Above
Approval # 32591 WB
Trailer # 189
Trailer Plate # TS8817

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 628-6091

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Printed/Typed Name: RAYMOND YEDGEAU
Signature: Raymond Yedgeau
Date: Month Day Year: 050890

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: DOUG PYNE
Signature: Doug Pyne
Date: Month Day Year: 050890

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year:

19. Discrepancy Indication Space
J.L.
#1022434

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name: Howard Cimpetz
Signature: [signature]
Date: Month Day Year: 054991

PR 5110 Rev. 8/90

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Form Approved OMB No 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1 Generator's US EPA ID No: MI 1 1 1 0 2 9 4 4 7 5 5 Manifest Document No: 9 1 4 4 3

2 Page 1 of 1

Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
Essex Specialty Products
1 Crossman Road, South, Sayreville, New Jersey 08872

A. State Manifest Document Number: MI 2449153

B. State Generator's ID: SAME

4. Generator's Phone (201) 727-2100

5. Transporter 1 Company Name: Hoadin Trucks Incorporated
6. US EPA ID Number: P A D 0 0 4 1 5 8 1 6

C. State Transporter's ID: NJDEPS7110

D. Transporter's Phone: (800) 456-8807

7. Transporter 2 Company Name
8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Wayne Disposal, Inc.
49350 N. I-94 Service Drive
Belleville, MI 4811
10. US EPA ID Number: M I D 0 4 8 0 9 0 6 3 3

G. State Facility's ID

H. Facility's Phone: (313) 697-7830

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).	HM	12 Containers No	Type	13 Total Quantity	14 Unit Wt/Vol	I. Waste No.	N/H
a. RQ hazardous Waste Solid, N.O.S., [contains bis (2-ethyl hexyl) phthalate] ORM-E NA9188	X	0 0 1	D T	1 5 5 1 8	YD	U 0 2 8	
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Approval # 32591 MB Trailer Plate #'s TS47278
Trailer #177

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 628-6091

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Printed/Typed Name: RAYMOND YERGEAU
Signature: Raymond Yergeau
Date (Month Day Year): 0 4 0 8 9 1

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Jeff Gum
Signature: Jeff Gum
Date (Month Day Year): 0 4 0 8 9 1

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date (Month Day Year):

19. Discrepancy Indication Space
Yd 1022444

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Thomas Brunt
Signature: [illegible]
Date (Month Day Year): 0 5 0 4 9 1

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: NJ000230871 3 Manifest Document No: 11974
2. Page 1 of 1
Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
Essex Specialty Products
1 Crossman Road, South, Sayreville, New Jersey, 08872
4. Generator's Phone (201) 727-2100

A. State Manifest Document Number: MI 2449154
B. State Generator's ID: SAME
C. State Transporter's ID: NJDEPS7110
D. Transporter's Phone:
E. State Transporter's ID:
F. Transporter's Phone:
G. State Facility's ID:
H. Facility's Phone: (313) 697-7830

5. Transporter 1 Company Name: Horwith Trucks Incorporated
6. US EPA ID Number: RA0064035819
7. Transporter 2 Company Name:
8. US EPA ID Number:
9. Designated Facility Name and Site Address
Wayne Disposal, Inc.
49350 N. I-95 Service Drive
Belleville, MI 48111
10. US EPA ID Number: MID048090633

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER)	HM		12 Containers No	Type	13 Total Quantity	14 Unit Wt/Vol	I. Waste No.	N/H
a.	X	RQ Hazardous Waste Solid, N.O.S., [contains bis (2-ethyl hexyl) phthalate] ORM-E NA9188	001	0	XXX18	YC	U028	
b.								
c.								
d.								

J. Additional Descriptions for Materials Listed Above
Approval # 32591 WB
Trailer # 108 Trailer Plate # PA TT78948

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 628-6091

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Printed/Typed Name: RAYMOND YERGEAU
Signature: Raymond Yergeau
Date: Month Day Year: 050891

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: TERRI HARTMAN
Signature: Terry Hartman
Date: Month Day Year: 050891

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year:

19. Discrepancy Indication Space
JL. #1022446

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Howard Compton
Signature: [signature]
Date: Month Day Year: 050891

GENERATOR / TRANSPORTER / FACILITY

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE

EPA Form 8700-22 (Rev. 9/88)
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Form Approved OMB No. 2050-0039 Expires 8-30-91

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: N J 0 0 0 2 5 8 3 7 1 5 — Manifest Document No: 9 1 6 7 4
2. Page 1 of 1
Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
Essex Specialty Products
1 Crossman Road, South, Sayreville, New Jersey, 08872

4. Generator's Phone (201) 727-2100

A. State Manifest Document Number: MI 2449155
B. State Generator's ID: SAME

5. Transporter 1 Company Name: Horwith TRucks Incorporated
6. US EPA ID Number: P A 0 0 6 4 0 3 5 8 1 9
C. State Transporter's ID: AJDEPS7110
D. Transporter's Phone: (800) 456-8807

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Wayne Disposal Inc.
49350 N. I-95 Service Drive
Belleville, MI 48111
10. US EPA ID Number: M I 0 0 4 8 0 9 0 6 3 3
G. State Facility's ID:
H. Facility's Phone: (313) 697-7830

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).	HM		12 Containers No	Type	13 Total Quantity	14 Unit Wt/Vol	I. Waste No.	N/H
a.	X	RQ Hazardous Waste Solid, N.O.S., [contains bis (2-ethyl hexyl) phthalate ORM-E NA9188	0 0 1	DT	X X X 1 8	YD	U 0 2 8	
b.								
c.								
d.								

J. Additional Descriptions for Materials Listed Above
Approval # 32591 MB Trailer Plate # TG7705
Trailer # 117

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information

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: RAYMOND YERCEAU — Signature: Raymond Yerceau — Date (Month Day Year): 04 09 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Marty Ballinger — Signature: [signature] — Date (Month Day Year): 05 09 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date (Month Day Year):

19. Discrepancy Indication Space
UWF 1022480

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name: Thomas Bru[illegible] — Signature: [signature] — Date (Month Day Year): 05 1991

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: NJ000235871 Manifest Document No: 31977
2. Page 1 of 1
Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
Essex Specialty Products
1 Crossman Road, South, Sayreville, New Jersey 08872

4. Generator's Phone (201) 727-2100

A. State Manifest Document Number: MI 2449156
B. State Generator's ID: SAME

5. Transporter 1 Company Name: Horwith Trucks Incorporated
6. US EPA ID Number: PAD064035819
C. State Transporter's ID: NJDEPS7110
D. Transporter's Phone: (800) 456-8807

7. Transporter 2 Company Name: MOLA TRUCKING T/A MITCHCO
8. US EPA ID Number: NJTD002779262
E. State Transporter's ID: NJDEPS7095
F. Transporter's Phone: 201-334-3700

9. Designated Facility Name and Site Address
Wayne Disposal, Inc.
49350 N. I-95 Service Drive
Belleville, MI 48111
10. US EPA ID Number: MID048090633
G. State Facility's ID:
H. Facility's Phone: (313) 697-7830

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).	HM		12 Containers No	Type	13 Total Quantity	14 Unit Wt/Vol	I. Waste No.	N/H
a.	X	RQ Hazardous Waste Solid, N.O.S., [contains ~~NA9000~~ bis (2-ethyl hexyl) phthalate] OWM-E NA9188	001	DT	XXX18	YD	U028	
b.								
c.								
d.								

J. Additional Descriptions for Materials Listed Above
Approval # 32591 WB Trailer Plate # NJ 238-TSH
Trailer #24

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
24 Hour emergency Response Number (800) 628-6091

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.

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Printed/Typed Name: RAYMOND YERGEAU
Signature: Raymond Yergeau
Date: Month Day Year: 04 09 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: TERRY M. ULMER
Signature: Terry M. Ulmer
Date: Month Day Year: 05 09 91

18. Transporter 2 Acknowledgement or Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year:

19. Discrepancy Indication Space
T.L.
1022461

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Thomas Bruin
Signature: [signature]
Date: Month Day Year: 05 19 91

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: MI 0 0 0 0 2 5 6 8 7 1 — Manifest Document No: 11079
2. Page 1 of 1
Information in the shaded area is not required by Federal law

3. Generator's Name and Mailing Address
Essex Specialty Products
1 Crossman Road, South, Sayreville, New Jersey 08872

4. Generator's Phone (201) 727-2100

A. State Manifest Document Number: MI 2449157
B. State Generator's ID: SAME

5. Transporter 1 Company Name: Horwith Trucks Incorporated
6. US EPA ID Number: PAD064035819
C. State Transporter's ID: HDDEPS7110
D. Transporter's Phone: (800) 456-8

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Wayne Disposal, Inc.
49350 N. I-95 Service Drive
Belleville, MI 48111
10. US EPA ID Number: MID048090633
G. State Facility's ID:
H. Facility's Phone: (313) 697-7830

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER)	HM		12 Containers No	Type	13 Total Quantity	14 Unit Wt/Vol	I. Waste No.
a.	X	RQ Hazardous Waste Solid, N.O.S., [contains bis (2-ethyl hexyl) phthalate] ORM-E NA9188	001	DT	XXX18	YD	U028
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Approval # 32591WB Trailer Plate Number R TL11854
Trailer Number 188

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 628-6091

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.

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Printed/Typed Name: RAYMOND YERGEAU — Signature: [signature] — Date: Month Day Year 05 09 89

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: L SANTEE — Signature: [signature] — Date: Month Day Year 05 09 89

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date: Month Day Year

19. Discrepancy Indication Space
LWH
#1022484

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name: [signature] — Signature: [signature] — Date: Month Day Year 05 10 89

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UNIFORM HAZARDOUS WASTE MANIFEST

1 Generator's US EPA ID No: M I D 0 2 4 1 1 1 1 4 1 6 0 7 9 — Manifest Document No

2 Page 1 of 1

Information in the shaded areas is not required by Federal law

3 Generator's Name and Mailing Address
Essex Specialty Products
1 Crossman Road, South, Sayreville, New Jersey 08872

4 Generator's Phone (201) 727-2100

A. State Manifest Document Number: MI 2449158

B. State Generator's ID: SAME

5 Transporter 1 Company Name: Horvith Trucks Incorporated — 6 US EPA ID Number: N A I D 0 6 4 0 3 5 4 1 9

C. State Transporter's ID: MDEPS7110

D. Transporter's Phone: (800) 456-6807

7 Transporter 2 Company Name — 8 US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9 Designated Facility Name and Site Address
Wayne Disposal, Inc.
49350 N. I-94 Service Drive
Belleville, MI 48111

10 US EPA ID Number: M I D 0 4 8 9 0 9 0 6 3 3

G. State Facility's ID

H. Facility's Phone: (313) 697-7830

	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER)	12 Containers No	Type	13 Total Quantity	14 Unit Wt/Vol	I. Waste No.	N/H
a. X	RQ Hazardous Waste Solid, N.O.S., [contains bis (2-ethyl hexyl) phthalate] ONHE NA9188	001	DT	0001	YD	U028	
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Approval # 32501 MB — Trailer Plate #'s TM48690
Trailer #172

K. Handling Codes for Wastes Listed Above: a/ / b/ / c/ / d/ /

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 628-6091

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.

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Printed/Typed Name: RAYMOND YERGHA — Signature: Raymond Yergha — Date (Month Day Year): 05 15 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Roger Balliet — Signature: Roger Balliet — Date (Month Day Year): 05 15 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date (Month Day Year)

19. Discrepancy Indication Space
#1022649

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name: Howard Conyers — Signature: Howard Conyers — Date (Month Day Year): 05 14 91

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: MI 3 3 4 0 2 9 0 8 7 1 5
Manifest Document No: 110880
2. Page 1 of 1
Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
Essex Specialty Products
1 Crossway Road, South, Sayreville, New Jersey, 08872

A. State Manifest Document Number: MI 2449159

4. Generator's Phone: (201) 727-2100

B. State Generator's ID: SAME

5. Transporter 1 Company Name: Horwith Trucks Incorporated
6. US EPA ID Number: R A I D O 4 8 4 1 3 5 1 H 1 4

C. State Transporter's ID: NJDEPS7110

7. Transporter 2 Company Name
8. US EPA ID Number

D. Transporter's Phone: (800) 456-8807

E. State Transporter's ID

9. Designated Facility Name and Site Address
Wayne Disposal Inc.
49350 N. I-96 Service Drive
Belleville, MI 48111
10. US EPA ID Number: M I D O 0 4 8 0 9 0 6 3 3

F. Transporter's Phone

G. State Facility's ID

H. Facility's Phone: (313) 697-7832

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).

	HM		12 Containers No	Type	13 Total Quantity	14 Unit Wt/Vol	I. Waste No.	N/H
a.	X	RQ Hazardous Waste Solid, N.O.S. [contains bis (2-ethyl hexyl) phthalate] BNI-E NA9188	001	DT	00118	YD	U028	
b.								
c.								
d.								

J. Additional Descriptions for Materials Listed Above
Approval # 32591 LB
Trailer Plate # R 573339
Trailer # 113

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
24 Hour emergency response number (800) 621-6011

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.

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Printed/Typed Name: RAYMOND YURCISIN
Signature: Raymond Yurcisin
Date (Month Day Year): 01 28 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: M W BALLINGER
Signature: M W Ballinger
Date (Month Day Year): 01 28 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date (Month Day Year):

19. Discrepancy Indication Space
JL

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name: Thomas Blunt
Signature:
Date (Month Day Year): 3 15 91

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UNIFORM HAZARDOUS WASTE MANIFEST

1 Generator's US EPA ID No. NJD 0 2 5 8 8 1 1 5 1 Manifest Document No. 2 0 5 8

2 Page 1 of 1

Information in the shaded areas is not required by Federal law

3 Generator's Name and Mailing Address
Essex Specialty Products
1 Crossman Road, South, Sayreville, New Jersey 08872

4 Generator's Phone (201) 727-2100

5 Transporter 1 Company Name: Horwith Trucks Incorporated
6 US EPA ID Number: M A D 0 8 4 0 3 5 8 1 1 0

7 Transporter 2 Company Name
8 US EPA ID Number

9 Designated Facility Name and Site Address
Wayne Disposal, Inc.
49350 N. I-96 Service Drive
Belleville, MI 48111
10 US EPA ID Number: M I D 9 8 4 4 9 9 6 3 3

A State Manifest Document Number: MI 2449162
B. State Generator's ID: SAHE
C. State Transporter's ID: NJUEBS7110
D. Transporter's Phone: (800)456-8307
E. State Transporter's ID
F. Transporter's Phone
G. State Facility's ID
H. Facility's Phone: (313) 697-7800

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER)

	HM		12 Containers No	Type	13 Total Quantity	14 Unit Wt/Vol	I. Waste No.	N/H
a	X	RQ Hazardous Waste Solid, N.O.S., [contains bis (2-ethyl hexyl) phthalate] ORM-E NA9188	4 9 1	DT	2 2 0 0 1 8	YD	D 0 2 8	
b								
c								
d								

J. Additional Descriptions for Materials Listed Above
Approval # 32591 WB
Trailer Plate Number Pa TW02731
Trailer Number 120

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15 Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 633-6044

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.

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Printed/Typed Name: RAYMOND VAN GERAU
Signature: Raymond Van Gerau
Date: Month Day Year 05 17 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: EARL KUNKEL
Signature: Earl Kunkel
Date: Month Day Year 05 17 91

18 Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Date: Month Day Year

19. Discrepancy Indication Space
T.W.
1022751

20 Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name: Neal Compton
Signature: Neal Compton
Date: Month Day Year 05 20 91

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UNIFORM HAZARDOUS WASTE MANIFEST

1 Generator's US EPA ID No: MI J D 0 0 2 5 0 8 7 1 9 Manifest Document No: 9 7 1 1 0 8 9

2 Page 1 of 1

Information in the shaded areas is not required by Federal law

3 Generator's Name and Mailing Address
Essex Specialty Products
1 Crossman Road, South, Sayreville, New Jersey 08872

4 Generator's Phone (201) 727-2130

5 Transporter 1 Company Name: Horvath Trucks Incorporated
6 US EPA ID Number: P A D 0 6 4 0 3 5 8 1 1

7 Transporter 2 Company Name: Mela T/A Mitlee
8 US EPA ID Number: N J D 0 0 2 7 7 9 2 1 4 2

9 Designated Facility Name and Site Address
Wayne Disposal Inc.
49350 N. I-94 Service Drive
Belleville, MI 48111
10 US EPA ID Number: M I D 0 4 8 0 9 0 6 3 1

A. State Manifest Document Number: MI 2449164
B. State Generator's ID: SAE
C. State Transporter's ID: NJUEPS7110
D. Transporter's Phone: (800) 456-8807
E. State Transporter's ID: NJDEPS7045
F. Transporter's Phone: 201-334-3700
G. State Facility's ID:
H. Facility's Phone: (313) 697-7830

	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).	HM	12 Containers No	Type	13 Total Quantity	14 Unit Wt/Vol	I. Waste No.	N/H
a.	RQ Hazardous Waste Solid, N.O.S., (contains bis (2-ethyl hexyl) phthalate) UN9189	X	44	BT	22000	YD	U028	
b.								
c.								
d.								

J. Additional Descriptions for Materials Listed Above
Approval # 32591 MB
Trailer # 34-2
Trailer Plate # NJ T712BA

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 620-8091

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.

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Printed/Typed Name: RAYMOND VANDERWEL — Signature: [signature] — Date (Month Day Year): 05 17 91

17 Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Tony DeMarcky — Signature: [signature] — Date (Month Day Year):

18 Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: Tony DeMarcky — Signature: [signature] — Date (Month Day Year):

19. Discrepancy Indication Space
JL

20 Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name: Thomas Bud[illegible] — Signature: [signature] — Date (Month Day Year):

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Form Approved OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: MI D 0 0 4 0 3 5 6 1 9
Manifest Document No: 9 1 0 4 9 0
2. Page 1 of 1
Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
Essex Specialty Products
1 Crossman Road, South, Sayreville, New Jersey 08872

4. Generator's Phone (201) 727-2100

5. Transporter 1 Company Name
Hanrith Trucks Incorporated

6. US EPA ID Number: PA D 0 0 4 0 3 5 6 1 9

7. Transporter 2 Company Name
Motor Matrix Trucking

8. US EPA ID Number: MID 0 0 2 7 7 9 2 1 6 2

9. Designated Facility Name and Site Address
Wayne Disposal, Inc.
49350 N. I-95 Service Drive
Belleville, MI

10. US EPA ID Number: MI D 0 4 8 9 0 9 0 6 3 3

A. State Manifest Document Number: MI 2449165
B. State Generator's ID: SAME
C. State Transporter's ID: 100057110
D. Transporter's Phone: (800) 456-8807
E. State Transporter's ID: 67095
F. Transporter's Phone: 201-334-3700
G. State Facility's ID:
H. Facility's Phone: (313) 697-7030

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER)

	HM		12. Containers No	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	N/H
a	X	NQ hazardous Waste Solid, N.O.S., [contains bis (2-ethyl hexyl) phthalate] ORM-E NA9188	041	4T	XXXX18	YD	U028	
b								
c								
d								

J. Additional Descriptions for Materials Listed Above
Approval Number 32591 MB
Trailer Plate Number NJ 7473GF
Trailer Number 34-1

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 628-6091

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.

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Printed/Typed Name: RAY MORAN VICE PRES.
Signature: Raymond Yergeau
Date: Month Day Year 10 25 1991

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Tony Smith
Signature: Tony Smith
Date: Month Day Year 10 25 1991

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: Tony Smith
Signature: Tony Smith
Date: Month Day Year 10 25 1991

19. Discrepancy Indication Space
J.L.Rau 1022754

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: James Brunt
Signature: [illegible]
Date: Month Day Year 10 29 91

EPA Form 8700-22 (Rev. 9/88)

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Form Approved OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: N J 0 0 0 2 5 6 8 7 1 5 — Manifest Document No: 9 1 0 4 1
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
Essex Specialty Products
1 Crossman Road, South, Sayreville, New Jersey 08872

4. Generator's Phone (201) 727-2100

5. Transporter 1 Company Name: Howwith Trucks Incorporated
6. US EPA ID Number: P A D 0 6 4 0 3 5 8 1 9

7. Transporter 2 Company Name:
8. US EPA ID Number:

9. Designated Facility Name and Site Address
Wayne Disposal Inc.
49350 N. I-95 Service Drive
Belleville, MI 48111
10. US EPA ID Number: M I D 0 4 8 0 9 0 0 3 3

A. State Manifest Document Number: MI 2449166
B. State Generator's ID: SAME
C. State Transporter's ID: NJDEPS7110
D. Transporter's Phone: (800) 456-8807
E. State Transporter's ID:
F. Transporter's Phone:
G. State Facility's ID:
H. Facility's Phone: (313) 697-7830

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).

	HM		12. Containers No	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	N/H
a.	X	RQ Hazardous Waste Solid, N.O.S., [contains bis (2-ethyl hexyl) phthalate] ORM-E NA9188	0 0 1	D 7	XXX 18	YD	U 0 2 8	
b.								
c.								
d.								

J. Additional Descriptions for Materials Listed Above
A$proval # 32591 WB
Trailer # 106
Trailer Plate # Pa TL28647

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 628-6091

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.

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Printed/Typed Name: RAYMOND YERGENI — Signature: [signature] — Date: Month Day Year 05 17 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Gordon Bird — Signature: Gordon Bird — Date: Month Day Year 05 17 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date: Month Day Year

19. Discrepancy Indication Space
Tola
1022800

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Thomas Bu[illegible] — Signature: [signature] — Date: Month Day Year 05 29 91

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Form Approved OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: [illegible] Manifest Document No: [illegible]
2. Page 1 of 1
Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
Essex Specialty Products
1 Crossman Road, South, Sayreville, New Jersye 08872

4. Generator's Phone (201) 727-2100

5. Transporter 1 Company Name: Horwith Trucks Incorporated
6. US EPA ID Number: [illegible]

7. Transporter 2 Company Name:
8. US EPA ID Number:

9. Designated Facility Name and Site Address
Wayne Disposal, Inc.
49350 N. I-95 Service Drive
Belleville, MI 48111
10. US EPA ID Number: MID048090633

A. State Manifest Document Number: MI 2449167
B. State Generator's ID: SAE
C. State Transporter's ID: [illegible]
D. Transporter's Phone: (800) 456-8807
E. State Transporter's ID:
F. Transporter's Phone:
G. State Facility's ID:
H. Facility's Phone: (313) 697-7830

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).

	HM		12 Containers No	Type	13 Total Quantity	14 Unit Wt/Vol	I. Waste No.	N/H
a.	X	RQ Hazardous Waste Solid, N.O.S., [contains bis (2-ethyl hexyl) phthalate] ORM-E NA9188	001	DT	XXX18	YD	0028	
b.								
c.								
d.								

J. Additional Descriptions for Materials Listed Above
Approval # 32591 WB
Trailer #176
Trailer Plate # PA TT12586

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
24 Hour emergency Response Number (800) 628-6391

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.

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Printed/Typed Name: RAYMOND YERGEAU
Signature: [signature]
Date: Month Day Year: 01 31 1991

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: KEITH FRITZ
Signature: [signature]
Date: Month Day Year: 05 15 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year:

19. Discrepancy Indication Space
Oil
#1022696

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name: [signature]
Signature: [signature]
Date: Month Day Year: 0[illegible]

EPA Form 8700-22 (Rev. 9/88)

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Form Approved OMB No 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1 Generator's US EPA ID No: NJ 0 4 0 9 2 3 6 8 7 1 5 Manifest Document No: 9 1 1 0 8 5

2 Page 1 of 1

Information in the shaded areas is not required by Federal law

3 Generator's Name and Mailing Address
Essex Specialty Products
1 Crossman Road, South, Sayreville, New Jersey 08872

4 Generator's Phone (201) 727-2100

A. State Manifest Document Number: MI 2449169

B. State Generator's ID: SAE

5 Transporter 1 Company Name: Hendricks Trucks Incorporated
6 US EPA ID Number: P A 9 9 6 4 0 3 5 8 1 9

C. State Transporter's ID: MDEPS/110

D. Transporter's Phone: (800) 456-6807

7 Transporter 2 Company Name
8 US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9 Designated Facility Name and Site Address
Wayne Disposal, Inc.
49350 N. I-96 Service Drive
Belleville, MI 48111
10 US EPA ID Number: M I D 9 4 8 9 9 0 6 3 3

G. State Facility's ID

H. Facility's Phone: (313) 697-7830

	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER)	HM	12 Containers No	Type	13 Total Quantity	14 Unit WT/Vol	I. Waste No.	N/H
a	RQ Hazardous Waste Solid, N.O.S., (contains bis (2-ethyl) hexyl) phthalate) UN9	X	4 0 1	D T	0 0 1 1 8	YD	4 4 2 8	
b								
c								
d								

J. Additional Descriptions for Materials Listed Above
Approval # 32591 WB Trailer Plate # K 1778948
Trailer # 108

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15 Special Handling Instructions and Additional Information

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Printed/Typed Name: RAYMOND YEOMANS
Signature: Raymond Yeomans
Date: Month Day Year: 05/15/91

17 Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: TERRY HARTMAN
Signature: Terry Hartman
Date: Month Day Year: 05/15/91

18 Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Date: Month Day Year

19. Discrepancy Indication Space
J.L. 1022695

20 Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name: Thomas Burns
Signature
Date: Month Day Year: 05/16/91

EPA Form 8700-22 (Rev 9/88)

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Form Approved OMB No 2050-0039 Expires 8-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1 Generator's US EPA ID No: M J D 0 0 2 5 5 8 7 1 5 Manifest Document No: 9 1 0 8 1 4

2 Page 1 of 1

Information in the shaded areas is not required by Federal law

3 Generator's Name and Mailing Address
Essex Specailty Products
1 Crossman Road, South, Sayreville, New Jersey 08872

4 Generator's Phone (201) 727-2100

A. State Manifest Document Number: MI 2449171

B. State Generator's ID: SNE

5 Transporter 1 Company Name: Hendrith Trucks Incorporated

6 US EPA ID Number: P A D 0 0 4 6 3 3 8 1 9

C. State Transporter's ID: NJDEPS7110

D. Transporter's Phone: (800) 456-8807

7 Transporter 2 Company Name:

8 US EPA ID Number:

E. State Transporter's ID:

F. Transporter's Phone:

9 Designated Facility Name and Site Address
Wayne Disposal, Inc.
49350 N. I-95 Service Drive
Belleville, MI 48111

10 US EPA ID Number: M I D 0 4 8 9 9 0 6 3 3

G. State Facility's ID:

H. Facility's Phone: (313) 697-7830

	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM		12. Containers No	Type	13 Total Quantity	14 Unit Wt/Vol	I. Waste No.	N/H
a	X	NQ Hazardous WasteSolid, N.O.S., [contains bis (2-ethyl hexyl) phthalate] ORM-E NA9189	0 0 1	D7	00001	YD	4 0 2 8	
b								
c								
d								

J. Additional Descriptions for Materials Listed Above
Approval Number 32591 MB Trailer Plate Number
Trailer Number 109 TM-84348

K. Handling Codes for Wastes Listed Above: a/ / b/ / c/ / d/ /

15 Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 628-6091

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Printed/Typed Name: RAYMOND YORGEY Signature: Raymond Yorgey Date: Month Day Year 09 17 90

17 Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Signature: Date: Month Day Year

18 Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: Signature: Date: Month Day Year

19 Discrepancy Indication Space
TL #102678

20 Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name: Norm Cunningham Signature: Norm Cunningham Date: Month Day Year 09 19 90

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

UNIFORM HAZARDOUS WASTE MANIFEST

1 Generator's US EPA ID No: NJ 3 3 4 5 2 9 0 8 7 1 5 Manifest Document No: 9 1 1 0 8 3

2 Page 1 of 1

Information in the shaded areas is not required by Federal law

3 Generator's Name and Mailing Address
Essex Specialty Products
1 Crossman Road, South, Sayreville, New Jersey 08672

4 Generator's Phone (201) 727-2100

5 Transporter 1 Company Name
Merola Enterprises ~~Hewitt Trucking Incorporated~~ N.Y.

6 US EPA ID Number: NJD 9 8 7 7 2 7 0 5 4

7 Transporter 2 Company Name

8 US EPA ID Number

9 Designated Facility Name and Site Address
Wayne Disposal, Inc.
49350 N. I-95 Service Drive
Belleville, MI 48111

10 US EPA ID Number: MI D 0 4 8 0 9 0 6 3 3

A. State Manifest Document Number: MI 2449172

B. State Generator's ID: SAES

C. State Transporter's ID: NJDEPS7277

D. Transporter's Phone: ~~(800) 451-0812~~

E. State Transporter's ID: 201 929 3500

F. Transporter's Phone

G. State Facility's ID

H. Facility's Phone: (313) 697-7830

	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).	12 Containers No	Type	13 Total Quantity	14 Unit Wt/Vol	I. Waste No.	N/H
a.	X RQ Hazardous Waste Solid, N.O.S., [contains bis (2-ethyl hexyl) phthalate] ORM-E NA9188	00 1	DT	44418	YD	4028	
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Approval # 32591 MB
Trailer Plate Number 987 Mio Ohio
Trailer Number 165A

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15 Special Handling Instructions and Additional Information
TRANSPORTER 1, SUBSTITUTE MEROLA FOR HORWITH.
BOXES CTD Should Read NJDEP S7277 201 929-3500

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	Printed/Typed Name	Signature	Date Month Day Year
Generator	Martin Verlau		05 15 19
17 Transporter 1 Acknowledgement of Receipt of Materials	Steven M Thompson #165		05 15 19
18 Transporter 2 Acknowledgement of Receipt of Materials			
Transporter			

19. Discrepancy Indication Space
Ok #1022671

20 Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Date Month Day Year
Harold Cook		05 16 19

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UNIFORM HAZARDOUS WASTE MANIFEST

1 Generator's US EPA ID No: MID 980 718 982 — Manifest Document No.

2 Page 1 of 1

Information in the shaded areas is not required by Federal law

3 Generator's Name and Mailing Address
Essex Specialty Products
1 Crossman Road, South, Sayreville, New Jersey 08872

A. State Manifest Document Number: MI 2449173

4 Generator's Phone (201) 727-2100

B. State Generator's ID: SAME

5 Transporter 1 Company Name: Hewitt Trucks Incorporated — 6 US EPA ID Number: PAD 001 616 351

C. State Transporter's ID: NJDPS7110

D. Transporter's Phone: (800) 456-8307

7 Transporter 2 Company Name — 8 US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9 Designated Facility Name and Site Address
Wayne Disposal, Inc.
49350 N. I-95 Service Drive
Belleville, MI 48111 — 10 US EPA ID Number: MID 048 090 313

G. State Facility's ID

H. Facility's Phone: (313) 697-7833

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER)	HM		12. Containers No	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	N/H
a.	X	NQ Hazardous Waste Solid, N.O.S., [contains bis (2-ethyl hexyl) phthalate] ORM-E NA9188	001	DT	XXXX18	YD	4023	
b.								
c.								
d.								

J. Additional Descriptions for Materials Listed Above
Approval 32591 MB — Trailer Plate # TN 74985
Trailer #102

K. Handling Codes for Wastes Listed Above: a/ / b/ / c/ / d/ /

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 620-6041

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.

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Printed/Typed Name: RAYMOND YERGEAU — Signature: Raymond Yergeau — Date (Month Day Year): 05 15 90

17 Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: HAROLD ZIEGENFUS — Signature: Harold Ziegenfus — Date (Month Day Year): 05 15 90

18 Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date (Month Day Year)

19 Discrepancy Indication Space
JL — 1022676

20 Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Thomas Bu[illegible] — Signature: [illegible] — Date (Month Day Year): 05 16 90

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Form Approved OMB No. 2050-0039 Expires 4-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: N J 0 0 0 2 3 8 8 7 1 5 — Manifest Document No: 9 1 0 5 1
2. Page 1 of 1

Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
Essex Specialty Products
1 Cruysman Road, South, Sayreville, New Jersey 08872

4. Generator's Phone (201) 727-2100

A. State Manifest Document Number: MI 2449174

B. State Generator's ID: SAME

5. Transporter 1 Company Name: Howarth Trucks Incorporated
6. US EPA ID Number: PAD 0 6 4 0 3 5 8 1 9

C. State Transporter's ID: NJDEPS7110

D. Transporter's Phone: (800) 456-8607

7. Transporter 2 Company Name:
8. US EPA ID Number:

E. State Transporter's ID:

F. Transporter's Phone:

9. Designated Facility Name and Site Address
WAYNE DISPOSAL, INC
49350 N. I-95 SERVICE ROAD
BELLEVILLE, MICH 48111

10. US EPA ID Number: M I D 0 4 8 0 9 0 6 3 3

G. State Facility's ID:

H. Facility's Phone: (313) 697-7830

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER)	HM		12. Containers No	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	N/H
a	X	RQ Hazardous Waste Solid, N.O.S., [contains bis (2-ethyl hexyl) phthalate] UN-E NA9128	001	DT	XXX18	YD	4028	
b								
c.								
d.								

J. Additional Descriptions for Materials Listed Above
Approval Number 32591 WD
Trailer Plate Number RTW027A
Trailer Number 120

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
24 HOUR EMERGENCY RESPONSE NUMBER (800) 628-6091

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.

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Printed/Typed Name: RAYMOND YERGEAU — Signature: Raymond Yergeau — Date: Month Day Year 05 15 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: EARL KUNKEL — Signature: Earl Kunkel — Date: Month Day Year 05 15 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date: Month Day Year

19. Discrepancy Indication Space
J.C. #1022642

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name: [illegible] — Signature: [illegible] — Date: Month Day Year 05 16 91

EPA Form 8700-22 (Rev. 9/88)

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PR 5110 Rev. 9/90

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Form Approved OMB No. 2050-0039 Expires 9-30-81

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: NJD002568715 — Manifest Document No: 40093

2. Page 1 of 1

Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
Essex Specialty Products
1 Crossman Road, South, Sayreville, New Jersey 08872

4. Generator's Phone (201) 727-2100

5. Transporter 1 Company Name: Horwith Trucks Incorporated

6. US EPA ID Number: RAD064035819

7. Transporter 2 Company Name:

8. US EPA ID Number:

9. Designated Facility Name and Site Address
Wayne Disposal, Inc.
49350 N. I-95 Service Drive
Belleville, MI 48111

10. US EPA ID Number: MID048090633

A. State Manifest Document Number: MI 2449175

B. State Generator's ID: SAME

C. State Transporter's ID: NJDEPS7110

D. Transporter's Phone: (800) 456-8837

E. State Transporter's ID:

F. Transporter's Phone:

G. State Facility's ID:

H. Facility's Phone: (313) 697-7830

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).

	HM		12 Containers No	Type	13 Total Quantity	14 Unit Wt/Vol	I. Waste No.	N/H
a.	X	RQ Hazardous Waste Solid, N.O.S., [contains bis (2-ethyl hexyl) phthalate] ORM-E NA9108	001	DT	XXXX18	YD	U028	
b.								
c.								
d.								

J. Additional Descriptions for Materials Listed Above
Approval Number 32591 WB
Trailer Plate Number
Trailer Number 113 TV34339-PA

K. Handling Codes for Wastes Listed Above: a/ / b/ / c/ / d/ /

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 628-6091

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.

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Printed/Typed Name: RAYMOND YERGEAU — Signature: [signature] — Date: Month Day Year 05 17 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: MN BOLLINGER — Signature: M N Bollinger — Date: Month Day Year 05 17 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date: Month Day Year

19. Discrepancy Indication Space
J. [signature] 1022774

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name: Thomas Brun [signature] — Signature: [signature] — Date: Month Day Year 05 29 91

EPA Form 8700-22 (Rev. 9-88)

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PR 5110 Rev. 9-90

177

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1989
Failure to file is punishable under Section 299.548 MCL or Section 10 of Act 136 PA 1969

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Form Approved OMB No 2060-0039 Expires 3-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1 Generator's US EPA ID No: MI 4 4 0 9 4 8 9 9 0 6 3 3 — Manifest Document No: 9 1 0 0 9 0 2

2 Page 1 of 1

Information in the shaded areas is not required by Federal law

GENERATOR

3 Generator's Name and Mailing Address
Essex Specialty Products
1 Crossman Road, South, Sayreville, New Jersey 08872

4 Generator's Phone (201) 727-2100

A. State Manifest Document Number: MI 2449176

B. State Generator's ID: SAME

TRANSPORTER

5 Transporter 1 Company Name: Hunwith Trucks Incorporated
6 US EPA ID Number: P A D 0 6 4 0 3 5 8 1 9

C. State Transporter's ID: NJLCPS7110

D. Transporter's Phone: (800) 456-8007

7 Transporter 2 Company Name
8 US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

FACILITY

9 Designated Facility Name and Site Address
Wayne Disposal, Inc.
49350 N. I-94 Service Drive
Belleville, MI 48111
10 US EPA ID Number: M I D 0 4 8 0 9 0 6 3 3

G. State Facility's ID

H. Facility's Phone: (313) 697-7830

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID NUMBER).	HM		12 Containers No	Type	13 Total Quantity	14 Unit Wt/Vol	I. Waste No.	N/H
a.	X	RQ hazardous Waste Solid, N.O.S., [contains bis (2-ethyl hexyl) phthalate] UN-E NA9188	0 4 1	DT	XXXX 118	YD	D 0 2 8	
b.								
c.								
d.								

J. Additional Descriptions for Materials Listed Above
Approval Number 32591 MB
Trailer Plate Number R TN74985
Trailer Number 702

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15 Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 626-6091

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.

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Printed/Typed Name: RAYMOND YEAR GEN.
Signature: [signature]
Date: Month Day Year: 05 17 91

17 Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: HAROLD ZIEGENFUS
Signature: [signature]
Date: Month Day Year: 05 17 91

18 Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Date: Month Day Year

19. Discrepancy Indication Space
J.L. 1022781

20 Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name: Thomas Brunty
Signature: [signature]
Date: Month Day Year: 05 29 91

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1969
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UNIFORM HAZARDOUS WASTE MANIFEST

1 Generator's US EPA ID No: NJ 4 0 0 2 5 1 8 7 1 5 — Manifest Document No: 91094

2 Page 1 of 1

Information in the shaded areas is not required by Federal law

3 Generator's Name and Mailing Address
Essex Specialty Products
1 Crossman Road, South, Sayreville, New Jersey 08872

4 Generator's Phone (201) 727-2100

A. State Manifest Document Number: MI 2449177

B. State Generator's ID: SAME

5 Transporter 1 Company Name: Horwith Trucks Incorporated

6 US EPA ID Number: RAD 0 0 4 0 3 5 8 1 9

C. State Transporter's ID: NJDEPS7110

7 Transporter 2 Company Name:

8 US EPA ID Number:

D. Transporter's Phone: (800)456-8807

E. State Transporter's ID:

9 Designated Facility Name and Site Address
Wayne Disposall, Inc.
49350 N. I-95 Service Drive
Belleville, MI 48111

10 US EPA ID Number: MID 0 4 8 0 9 0 6 3 3

F. Transporter's Phone:

G. State Facility's ID:

H. Facility's Phone: (313) 697-7830

11 US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).

	HM		12 Containers No	Type	13 Total Quantity	14 Unit Wt/Vol	I. Waste No.	N/H
a	X	RQ Hazardous Waste Solid, N.O.S., [contains bis (2-ethyl hexyl) phthalate] ORM-E NA9188	001	DT	XXX18	YD	U028	
b								
c								
d								

J. Additional Descriptions for Materials Listed Above
Approval Number 32591 WB
Trailer Plate Number
Trailer Number

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15 Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 628-6091

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Printed/Typed Name: RAYMOND YEOGERI — Signature: [signature] — Date: Month Day Year 05 17 91

17 Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Timothy J. Navatine — Signature: [signature] — Date: Month Day Year 05 17 91

18 Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date: Month Day Year

19 Discrepancy Indication Space
NL
1022801

20 Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name: [signature] — Signature: [signature] — Date: Month Day Year 05 26 91

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Form Approved OMB No 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1 Generator's US EPA ID No: NJT 0 0 1 3 8 1 7 1 9 9 | Manifest Document No: 9 1 1 1 9 | 2 Page 1 of 1 | Information in the shaded areas is not required by Federal law

3 Generator's Name and Mailing Address
Essex Specialty Products
1 Crossman Road, South, Sayreville, New Jersey 08872

4 Generator's Phone (201) 727-2100

5 Transporter 1 Company Name: Horvath Trucks Incorporated | 6 US EPA ID Number: PA 0 0 4 9 4 3 5 8 1 9

7 Transporter 2 Company Name: MOLA TRUCKING T/A MITCHKO | 8 US EPA ID Number: NJD 0 1 0 2 7 1 9 2 6 2

9 Designated Facility Name and Site Address
Wayne Disposal, Inc.
49350 N. I-96 Service Drive
Belleville, MI 48111
10 US EPA ID Number: MI 0 0 4 8 0 9 0 6 3 3

A. State Manifest Document Number: MI 2449179
B. State Generator's ID: SAE
C. State Transporter's ID: NJDEPS7110
D. Transporter's Phone: (800) 455-8307
E. State Transporter's ID: NJDEPS7095
F. Transporter's Phone: 201/334/3700
G. State Facility's ID:
H. Facility's Phone: (313) 697-7830

	11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID NUMBER)	HM	12 Containers No	Type	13 Total Quantity	14 Unit Wt/Vol	I. Waste No.	N/H
a	RQ Hazardous Waste Solid, N.O.S., (contains bis (2-ethyl hexyl) phthalate) (R+E N9188)	X	0 0 1	DT	XXX 18	YD	U 0 2 8	
b								
c								
d								

J. Additional Descriptions for Materials Listed Above
Approval Number 32501 MI
Trailer Plate Number N.J. 238-TSH
Trailer Number 32-1

K. Handling Codes for Wastes Listed Above: a/ / b/ / c/ / d/ /

15 Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 626-6391

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.

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Printed/Typed Name: RAYMOND VERREAU | Signature: Raymond Verreau | Date: Month Day Year 9 5 1 7 9 1

17 Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: TERRY M. ULMER | Signature: Terry M. Ulmer | Date: Month Day Year 0 5 1 7 9 1

18 Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: TERRY M ULMER | Signature: Terry M. Ulmer | Date: Month Day Year 0 5 1 7 9 1

19 Discrepancy Indication Space
J.L.
1022764

20 Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name: Thomas Bru[illegible] | Signature: [illegible] | Date: Month Day Year 0 5 1 7 9 1

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UNIFORM HAZARDOUS WASTE MANIFEST

1 Generator's US EPA ID No: MID 980 728 919 — Manifest Document No

2 Page 1 of 1

Information in the shaded areas is not required by Federal law

3 Generator's Name and Mailing Address
Essex Specialty Products
1 Crossman Road, South, Sayreville, New Jersey 08872

4 Generator's Phone (201) 727-3100

A. State Manifest Document Number: MI 2449180

B. State Generator's ID: 5115

5 Transporter 1 Company Name: Hunwith Trucks Incorporated

6 US EPA ID Number: PAD 064 035 819

C. State Transporter's ID: MDEPS7110

D. Transporter's Phone: (800) 456-8807

7 Transporter 2 Company Name

8 US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9 Designated Facility Name and Site Address
Wayne Disposal, Inc.
49350 N. I-96 Service Drive
Belleville, MI 48111

10 US EPA ID Number: MID 048 090 633

G. State Facility's ID

H. Facility's Phone: (313) 697-7830

	11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID NUMBER)	12 Containers No	Type	13 Total Quantity	14 Unit Wt/Vol	I. Waste No	N/H
a	X (RQ) Hazardous Waste Solid, N.O.S., [contains bis (2-ethyl hexyl) phthalate] GHC NA9189	001	DT	XXX18	YD	U028	
b							
c							
d							

J. Additional Descriptions for Materials Listed Above
Approval Number 32591 MB — Trailer Plate Number R TN98139
Trailer Number 180

K. Handling Codes for Wastes Listed Above: a/ / b/ / c/ / d/ /

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 620-6001

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.

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Printed/Typed Name: RAYMOND YERGEAU — Signature: Raymond Yergeau — Date (Month Day Year): 10 5 2 1 9 1

17 Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Craig Day — Signature: [signature] — Date (Month Day Year): 10 5 2 8 9 1

18 Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date (Month Day Year)

19. Discrepancy Indication Space
TL 1023025

20 Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name: Thomas Brunt — Signature: [signature] — Date (Month Day Year): 10 30 91

GENERATOR — TRANSPORTER — FACILITY

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UNIFORM HAZARDOUS WASTE MANIFEST

1 Generator's US EPA ID No: NJD003687171 — Manifest Document No: 7109

2 Page 1 of 1

Information in the shaded areas is not required by Federal law

3 Generator's Name and Mailing Address
Essex Specialty Products
1 Crossman Road, South, Sayreville, New Jersey 08872

A. State Manifest Document Number: MI 2449183

B. State Generator's ID: SAME

4 Generator's Phone (201) 727-2130

5 Transporter 1 Company Name: Jones Trucks Incorporated — 6 US EPA ID Number: PAD003903081

C. State Transporter's ID: NJDEP57110

D. Transporter's Phone: (800) 456-3807

7 Transporter 2 Company Name — 8 US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9 Designated Facility Name and Site Address
Wayne Disposal, Inc.
49350 N. I-95 Service Drive
Belleville, MI 48111 — 10 US EPA ID Number: MID048039531

G. State Facility's ID

H. Facility's Phone: (313) 697-7830

	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER)	HM	12 Containers No	Type	13 Total Quantity	14 Unit WT/Vol	I. Waste No.	N/H
a.	RQ Hazardous Waste Solid, N.O.S., [contains bis (2-ethyl hexyl) phthalate] UN9-E NA9188	X	001	DT	00018	YD	U028	
b.								
c.								
d.								

GENERATOR

J. Additional Descriptions for Materials Listed Above
Approval Number 32591 UB — Trailer Plate Number R 7178498
Trailer Number 108

K. Handling Codes for Wastes Listed Above: a/ / b/ / c/ / d/ /

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 626-6091

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Printed/Typed Name: RAYMOND VOR BRAKEL — Signature: Raymond Vorbrakel — Date: Month Day Year 05 17 89

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: TERRY HARTMAN — Signature: Terry Hartman — Date: Month Day Year 05 17 89

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date: Month Day Year

TRANSPORTER

19. Discrepancy Indication Space
Ok — 1022 755

FACILITY

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Thomas Brunt — Signature: Tho Br — Date: Month Day Year 05 22 89

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 FROM THE NATIONAL RESPONSE CENTER 1-800-424-8802

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UNIFORM HAZARDOUS WASTE MANIFEST

1 Generator's US EPA ID No: NJD 9 4 3 0 9 7 1 5 | Manifest Document No: 4 1 0 8 7

2 Page 1 of 1

Information in the shaded areas is not required by Federal law

3 Generator's Name and Mailing Address
Essex Specialty Products
1 Crossman Road, South, Sayreville, New Jersey 08672

4 Generator's Phone (201) 727-2100

5 Transporter 1 Company Name: Metalia Enterprises Inc ~~Hewitt Trucks Incorporated~~

6 US EPA ID Number: NJD 0 6 2 7 4 7 9 5 4

7 Transporter 2 Company Name

8 US EPA ID Number

9 Designated Facility Name and Site Address
Wayne Disposal, Inc.
49350 N. I-94 Service Drive
Belleville, MI 48111

10 US EPA ID Number: M I D 0 7 4 3 4 0 6 3 3

A. State Manifest Document Number: MI 2449184

B. State Generator's ID: SAE

C. State Transporter's ID: ~~MDR052446~~

D. Transporter's Phone: ~~(831) 456-0017~~

E. State Transporter's ID

F. Transporter's Phone

G. State Facility's ID

H. Facility's Phone: (313) 697-7300

	11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID NUMBER)	HM	12 Containers No	Type	13 Total Quantity	14 Unit Wt/Vol	I. Waste No.	N/H
a.	RQ Hazardous Waste Solid, N.O.S., [contains bis (2-ethyl hexyl) phthalate] ORM-E NA9189	X	001	DT	XXXX 18	YD	4028	
b.								
c.								
d.								

J. Additional Descriptions for Materials Listed Above
Approval 22591 MB
Trailer Plate Number 629 TUD
Trailer Number 149

K. Handling Codes for Wastes Listed Above: a/ / b/ / c/ / d/ /

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) [illegible] Boxes C and D should be S 7277 201-929-3500

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.

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Printed/Typed Name: RAYMOND YERGEAU — Signature: [signature] — Date: Month Day Year 05 15 91

17 Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Robert FRYE — Signature: [signature] — Date: Month Day Year 05 15 91

18 Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date: Month Day Year

19. Discrepancy Indication Space
Jb #1122682

20 Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Howard Compton — Signature: [signature] — Date: Month Day Year 05 16 91

EPA Form 8700-22 (Rev. 9/88)

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Form Approved OMB No 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1 Generator's US EPA ID No: NJ D 0 0 2 9 8 7 1 5 — Manifest Document No: 9 1 0 0 9 1 7

2 Page 1 of 1

Information in the shaded areas is not required by Federal law

3 Generator's Name and Mailing Address
Essex Specialty Products
1 Crossman Road, South, Sayreville, New Jersey 08872

A. State Manifest Document Number: MI 2449185

B. State Generator's ID: SAME

4 Generator's Phone (201) 727-2100

5 Transporter 1 Company Name: Howith Trucks Incorporated — 6 US EPA ID Number: M D 0 0 6 1 4 1 7 8 1 0

C. State Transporter's ID: MDEPS/110

D. Transporter's Phone: (800) 456-8507

7 Transporter 2 Company Name — 8 US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9 Designated Facility Name and Site Address
Wayne Disposal, Inc.
49350 I-94 Service Drive
Belleville, MI 48111 — 10 US EPA ID Number: M I D 0 4 8 0 9 0 6 3 3

G. State Facility's ID

H. Facility's Phone: (313) 697-7830

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID NUMBER).	HM	12 Containers No	Type	13 Total Quantity	14 Unit Wt/Vol	I. Waste No.	N/H
a. X RQ Hazardous Waste Solid, N.O.S., (contains bis (2-ethyl hexyl) phthalate) ORM-E NA9189		0 0 1	D T	X X X 1 8	Y D	U 0 2 6	
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Approval # 32591 WB — Trailer Plate Number 2 TT2788
Trailer Number 196

K. Handling Codes for Wastes Listed Above: a/ / b/ / c/ / d/ /

15 Special Handling Instructions and Additional Information

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.

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Printed/Typed Name: RAYMOND VERGELLI — Signature: Raymond Vergelli — Date (Month Day Year): 0 4 1 7 9 1

17 Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: BETH PRITZ — Signature: [illegible] — Date (Month Day Year): 0 5 1 7 9 1

18 Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date (Month Day Year)

19 Discrepancy Indication Space
J.L. 1022780

20 Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name: Thomas Brunt — Signature: [illegible] — Date (Month Day Year): 0 5 1 2 0 9 1

GENERATOR — TRANSPORTER — DESIGNATED FACILITY

ALL PRINT CENTER AT 1-800-344-6800 24 HOURS PER DAY

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UNIFORM HAZARDOUS WASTE MANIFEST

1 Generator's US EPA ID No: NJD029881719 Manifest Document No: 000000

2 Page 1 of 1 — Information in the shaded areas is not required by Federal law

3 Generator's Name and Mailing Address
Essex Specialty Products
1 Crossman Road, South, Sayreville, New Jersey 08872

4 Generator's Phone (201) 727-2100

5 Transporter 1 Company Name: Horwith Trucks Incorporated
6 US EPA ID Number: MAD006403718

7 Transporter 2 Company Name
8 US EPA ID Number

9 Designated Facility Name and Site Address
Wayne Disposal, Inc.
49350 N. I-95 Service Drive
Belleville, MI 48111
10 US EPA ID Number: MID048090633

A. State Manifest Document Number: MI 2449181
B. State Generator's ID: SAME
C. State Transporter's ID: NJE057110
D. Transporter's Phone: (800) 456-8007
E. State Transporter's ID
F. Transporter's Phone
G. State Facility's ID
H. Facility's Phone: (313) 697-7830

GENERATOR

	11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID NUMBER)	HM	12 Containers No	Type	13 Total Quantity	14 Unit Wt/Vol	I. Waste No.	N/H
a	RQ Hazardous Waste Solid, N.O.S., (contains bis (2-ethyl hexyl) phthalate) ORM-E NA9188	X	001	DT	XXX118	YD	D028	
b								
c								
d								

J. Additional Descriptions for Materials Listed Above
Approval Number 32591 LB
Trailer Number 177
Trailer Plate Number LTS47278

K. Handling Codes for Wastes Listed Above: a/ b/ c/ d/

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 628-6091

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.

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Printed/Typed Name: RAYMOND YORCCAK — Signature: Raymond Yorcak — Date (Month Day Year): 04 27 91

TRANSPORTER

17 Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Jeff Grim — Signature: Jeff Grim — Date (Month Day Year): 04 27 91

18 Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date (Month Day Year)

FACILITY

19. Discrepancy Indication Space
J.C.
#1023039

20 Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name: [illegible] — Signature: [illegible] — Date (Month Day Year): 04 29 91

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: [illegible] Manifest Document No: [illegible]
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
Essex Specialty Products
1 Crossman Road, South, Sayreville, New Jersey 08272

4. Generator's Phone (201) 727-2100

A. State Manifest Document Number: MI 2449182
B. State Generator's ID: SAME

5. Transporter 1 Company Name: Hurwith Trucks Incorporated
6. US EPA ID Number: PAD064035819
C. State Transporter's ID: NJDEP57110
D. Transporter's Phone: (800) 456-8807

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Wayne Disposal, Inc.
49350 N. I-95 Service Drive
Belleville, MI 48111
10. US EPA ID Number: MID048090633
G. State Facility's ID:
H. Facility's Phone: (313) 697-7830

	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER) HM		12 Containers No	Type	13 Total Quantity	14 Unit Wt/Vol	I. Waste No.	N/H
a	X	RQ Hazardous Waste Solid, N.O.S., [contains bis (2-ethyl hexyl) phthalate] UN-E NA9188	001	DT	XXX18	YD	U028	
b								
c								
d								

J. Additional Descriptions for Materials Listed Above
Approval Number 32591 WB
Trailer Plate Number 7L41408
Trailer Number 125

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 628-6091

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.

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Printed/Typed Name: RAYMOND YERBEAU
Signature: [signature]
Date: Month Day Year: 05 28 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Jeffrey Kistler
Signature: [signature]
Date: Month Day Year: 05 28 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year:

19. Discrepancy Indication Space
JR
1023050

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Thomas Bourg
Signature: [signature]
Date: Month Day Year: 05 29 91

EPA Form 8700-22 (Rev. 9/88)
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UNIFORM HAZARDOUS WASTE MANIFEST

1 Generator's US EPA ID No: MI 1 0 0 2 1 4 4 7 1 5 — Manifest Document No: 9 7 1 1 0 1 2

2 Page 1 of 1

Information in the shaded areas is not required by Federal law

3 Generator's Name and Mailing Address
Essex Specialty Products
1 Crossman Road, South, Sayreville, New Jersey 08872

4 Generator's Phone (201) 727-2100

A. State Manifest Document Number: MI 2449187

B. State Generator's ID: SHE

5 Transporter 1 Company Name: Horwitz Trucks Incorporated

6 US EPA ID Number: P A D 0 4 6 4 0 3 5 8 1 9

C. State Transporter's ID: NJUEPS7110

D. Transporter's Phone: (800) 456-0307

7 Transporter 2 Company Name

8 US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9 Designated Facility Name and Site Address
Wayne Disposal, ~~XXXXXX~~ Inc.
49350 N. I-95 Service Drive
Belleville, MI 48111

10 US EPA ID Number: M I D 0 4 8 0 9 0 6 3 3

G. State Facility's ID

H. Facility's Phone: (313) 697-7830

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).	HM		12 Containers No	Type	13 Total Quantity	14 Unit Wt/Vol	I. Waste No.	N/H
a.	X	RQ Hazardous Waste Solid, N.O.S., (contains bis (2-ethyl hexyl) phthalate) ORM-E NA9186	0 1	DT	X X X 1 1 9	YD	U 0 2 8	
b.								
c.								
d.								

J. Additional Descriptions for Materials Listed Above
Approval Number 325911B
Trailer Plate Number 1a TT 78448
Trailer Number 108

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
24 Hr Emergency Response Number (800) 522-0304

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.

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Printed/Typed Name	Signature	Date (Month Day Year)
RAYMOND VAN SLYKE	[signature]	05 13 91

TRANSPORTER

17 Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)
[illegible]	[signature]	[illegible]

18 Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)

DESIGNATED FACILITY

19. Discrepancy Indication Space
Jc #102304

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19

Printed/Typed Name	Signature	Date (Month Day Year)
Thomas J Conti Jr	[signature]	05 13 91

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UNIFORM HAZARDOUS WASTE MANIFEST

1 Generator's US EPA ID No: NJ T 0 0 2 5 0 0 7 2 8 Manifest Document No: 9 1 7 1 0 1 3

2 Page 1 of 1

Information in the shaded areas is not required by Federal law

3 Generator's Name and Mailing Address
Essex Speciality Products
1 Crossman Road, South, Sayreville, New Jersey 08872

A. State Manifest Document Number: MI 2449188

B. State Generator's ID: SAME

4 Generator's Phone ( ) 727-2100

5 Transporter 1 Company Name: Hunnth Trucks Incorporated
6 US EPA ID Number: M A D 0 6 4 0 3 5 8 1 9

C. State Transporter's ID: MDDPS7110

D. Transporter's Phone: (800) 456-0607

7 Transporter 2 Company Name
8 US EPA ID Number

E. State Transporter's ID:

F. Transporter's Phone

9 Designated Facility Name and Site Address
Wayne Disposal, Inc.
49350 N. I-94 Service Drive
Belleville, MI 48111
10 US EPA ID Number: M I D 0 4 8 0 9 0 6 3 3

G. State Facility's ID

H. Facility's Phone: (313) 697-7830

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER)	HM	12 Containers No	Type	13 Total Quantity	14 Unit Wt/Vol	I. Waste No.	N/H
a. RQ Hazardous Waste Solid, N.O.S., [contains bis (2-ethyl hexyl) phthalate] ORM-E NA9188	X	0 0 1	D T	X X X 18	YD	U 0 2 8	
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Approval Number 325913
Trailer Plate Number RA TV34339
Trailer Number 113

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 628-6091

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.

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Printed/Typed Name: RAYMOND YEN GEN
Signature: Raymond Yengem
Date (Month Day Year): 1 1 5 1 2 9 9 1

17 Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: MN BOLLINGER
Signature: M N Bollinger
Date (Month Day Year): 0 5 1 2 9 1

18 Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date (Month Day Year):

19. Discrepancy Indication Space
OK
1030388

20 Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name: Thomas Bunt
Signature:
Date (Month Day Year): 1 0 5 2 9 1

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UNIFORM HAZARDOUS WASTE MANIFEST

1 Generator's US EPA ID No: NJD002568715 Manifest Document No: 911104

2 Page 1 of 1

Information in the shaded areas is not required by Federal law

3 Generator's Name and Mailing Address
Essex Specailty Products
1 Crossman Road, South, Sayreville, New Jersey 08872

4 Generator's Phone (201) 727-2100

A. State Manifest Document Number: MI 2449189

B. State Generator's ID: SAME

5 Transporter 1 Company Name: Harwith Trucks Incorporated

6 US EPA ID Number: PAD064035819

C. State Transporter's ID: NJDEPS7110

D. Transporter's Phone: (800) 455-8807

7. Transporter 2 Company Name:

8. US EPA ID Number:

E. State Transporter's ID:

F. Transporter's Phone:

9 Designated Facility Name and Site Address
Wayne Disposal Inc.
49350 N. I-95 Service Drive
Belleville, MI 48111

10 US EPA ID Number: MID048090633

G. State Facility's ID:

H. Facility's Phone: (313) 697-7830

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER)	HM		12 Containers No	Type	13 Total Quantity	14 Unit Wt/Vol	I. Waste No.	N/H
a.	X	RQ Hazardous Waste Solid, N.O.S., [contains bis (2-ethyl hexyl) phthalate] ORM-E NA9188	001	DT	XXX18	YD	0028	
b.								
c.								
d.								

J. Additional Descriptions for Materials Listed Above
Approval Number 32591WB Trailer Plate Number
Trailer Number

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15 Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 628-6091

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Printed/Typed Name: RAYMOND YERGEAN Signature: Raymond Yergean Date: Month Day Year 05 28 91

17 Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: LONNY J BRYFOGLE Signature: Lonny J Bryfogle Date: Month Day Year 05 28 91

18 Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: Signature: Date: Month Day Year

19. Discrepancy Indication Space
J.L. #1023051

20 Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name: [illegible] Signature: [illegible] Date: Month Day Year 05 29 91

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

UNIFORM HAZARDOUS WASTE MANIFEST

1 Generator's US EPA ID No: NJD041398715 Manifest Document No: 9171015

2 Page 1 of 1

Information in the shaded areas is not required by Federal law

3 Generator's Name and Mailing Address
Essex Specialty Products
1 Crossman Road, South, Sayreville, New Jersey 08872

4 Generator's Phone (201) 727-2100

5 Transporter 1 Company Name: Horwith Trucks Incorporated
6 US EPA ID Number: PAD064038115

7 Transporter 2 Company Name
8 US EPA ID Number

9 Designated Facility Name and Site Address
Wayne Disposal, Inc.
49350 N. I-95 Service Drive
Belleville, MI 48111
10 US EPA ID Number: MID048090613

A. State Manifest Document Number: MI 2449191
B. State Generator's ID: SAME
C. State Transporter's ID: NJUEJ57110
D. Transporter's Phone: (800) 456-[illegible]
E. State Transporter's ID
F. Transporter's Phone
G. State Facility's ID
H. Facility's Phone: (313) 697-7830

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).

	HM	11. US DOT Description	12 Containers No	Type	13 Total Quantity	14 Unit Wt/Vol	I. Waste No.
a.	X	RQ Hazardous Waste Solid, N.O.S., (contains bis (2-ethyl hexyl) phthalate) ORM-E NA9188	001	DT	XXXX18	YD	4428
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Approval Number 33501UB
Trailer Number 106
Trailer Plate Number R TL28647

K. Handling Codes for Wastes Listed Above: a/ / b/ / c/ / d/ /

15 Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 628-6091

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Printed/Typed Name: RAYMOND YEN GUAN
Signature: [signature]
Date: Month Day Year 01 15 91

17 Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Gordon Bird
Signature: Gordon Bird
Date: Month Day Year 01 15 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Date: Month Day Year

19. Discrepancy Indication Space
LWH

20 Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
10230163

Printed/Typed Name: Thomas Brunty
Signature: [signature]
Date: Month Day Year 01 25 91

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UNIFORM HAZARDOUS WASTE MANIFEST

1 Generator's US EPA ID No: MJD002568715 | Manifest Document No: [illegible] | 2 Page 1 of 1 | Information in the shaded areas is not required by Federal law

3 Generator's Name and Mailing Address
Essex Specialty Products
1 Crossman Road, South, Sayreville, New Jersey 08872

4 Generator's Phone (201) 727-2100

A. State Manifest Document Number: MI 2449193

B. State Generator's ID: SAME

5 Transporter 1 Company Name: Norwith Trucks Incorporated | 6 US EPA ID Number: PAD064435819

C. State Transporter's ID: NDDEPS7110

D. Transporter's Phone: (800) 456-8307

7 Transporter 2 Company Name | 8 US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9 Designated Facility Name and Site Address
Wayne Disposal, Inc.
49350 N. I-95 Service Drive
Belleville, MI 48111

10 US EPA ID Number: MID048090633

G. State Facility's ID

H. Facility's Phone: (313) 697-7830

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER).	HM		12 Containers No	Type	13 Total Quantity	14 Unit Wt/Vol	I. Waste No.	N/H
a.	X	RQ Hazardous Waste Solid, N.O.S., [contains bis (2-ethyl hexyl) phthalate] GPM-E Na9188	001	DT	XXXX18	YD	U028	
b.								
c.								
d.								

J. Additional Descriptions for Materials Listed Above
Approval Number 32591WB
Trailer Number 107
Trailer Plate Number PTM84346

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 628-6091

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Printed/Typed Name: RAYMOND VERGEAU | Signature: [signature] | Date: Month Day Year 05 28 91

17 Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Timothy J. NAVATTO | Signature: [signature] | Date: Month Day Year 05 28 91

18 Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Date: Month Day Year

19 Discrepancy Indication Space
D.L. #1023042

20 Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name: [illegible] | Signature: [signature] | Date: Month Day Year 05 28 91

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Form Approved OMB No 2050-0039 Expires 5-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1 Generator's US EPA ID No: MID 0 0 2 9 8 8 7 1 9 — Manifest Document No: 9 1 1 1 1 7

2 Page 1 of 1

Information in the shaded areas is not required by Federal law

3 Generator's Name and Mailing Address
Essex Specialty Products
1 Crossman Road, South, Sayreville, New Jersey 08872

4 Generator's Phone (201) 727-2100

5 Transporter 1 Company Name: Hewitt Trucks Incorporated
6 US EPA ID Number: PLA 0 0 6 3 0 3 1 5 8 1 1 9

7 Transporter 2 Company Name
8 US EPA ID Number

9 Designated Facility Name and Site Address
Wayne Disposal, Inc.
49350 N. I-94 Service Drive
Belleville, MI 48111
10 US EPA ID Number: MI D 0 0 4 8 0 9 0 1 8 6 3

A. State Manifest Document Number: MI 2449194
B. State Generator's ID: SNE
C. State Transporter's ID: NJDEPS/110
D. Transporter's Phone: (800) 456-6807
E. State Transporter's ID
F. Transporter's Phone
G. State Facility's ID
H. Facility's Phone: (313) 697-7830

11 US DOT Description (Including Proper Shipping Name, Hazard Class, and ID NUMBER)	HM	12 Containers No	Type	13 Total Quantity	14 Unit Wt/Vol	I. Waste No.	N/H
a. RQ Hazardous Waste Solid, N.O.S., [contains bis (2-ethyl hexyl) phthalate] GHHE NA9189	X	001	DT	XXXX18	YD	U028	
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
Approval Number 325611B
Trailer Plate Number PA/N74994 PA.
Trailer Number 190

K. Handling Codes for Wastes Listed Above: a/ / b/ / c/ / d/ /

15 Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 628-6091

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.

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Printed/Typed Name: RAYMOND YOSTGETTI — Signature: [signature] — Date: Month Day Year 01 15 91

TRANSPORTER

17 Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: John J. Fox — Signature: [signature] — Date: Month Day Year 01 15 91

18 Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space
J.C. 102304

20 Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name: Thomas Brunt — Signature: [signature] — Date: Month Day Year 01 25 91

EPA Form 8700-22 (Rev. 9/88)

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UNIFORM HAZARDOUS WASTE MANIFEST

1 Generator's US EPA ID No: MI D 0 4 8 0 9 0 6 3 3 — Manifest Document No. 2 0 0 8

2 Page 1 of 1

Information in the shaded areas is not required by Federal law

3 Generator's Name and Mailing Address
Essex Specialty Products
1 Crossman Road, South, Sayreville, New Jersey 08872

4 Generator's Phone (201) 727-2100

5 Transporter 1 Company Name: Lindrith Trucks Incorporated — 6 US EPA ID Number: MI D 0 0 4 2 4 1 1 1 1 0

7 Transporter 2 Company Name — 8 US EPA ID Number

9 Designated Facility Name and Site Address
Wayne Disposal, Inc.
49350 N. I-94 Service Drive
Belleville, MI 48111

10 US EPA ID Number: MI D 0 4 8 0 9 0 6 3 3

A. State Manifest Document Number: MI 2449196
B. State Generator's ID: 54E
C. State Transporter's ID: NJDEPS7110
D. Transporter's Phone: (800) 456-3607
E. State Transporter's ID
F. Transporter's Phone
G. State Facility's ID
H. Facility's Phone: (313) 697-7850

GENERATOR

	11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID NUMBER)	HM	12 Containers No	Type	13 Total Quantity	14 Unit Wt/Vol	I. Waste No.	N/H
a	RQ Hazardous Waste Solid, N.O.S., [contains bis (2-ethyl hexyl) phthalate] (PM-E NA9182	X	0 0 1	DT	X X X 118	YD	U 0 2 8	
b								
c								
d								

J. Additional Descriptions for Materials Listed Above
Approval Number 3259118
Trailer Plate Number R 167 7105
Trailer Number 197

K. Handling Codes for Wastes Listed Above: a/ / b/ / c/ / d/ /

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 628-6091

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: RAYMOND YERGEAU — Signature: Raymond Yergeau — Date: Month Day Year 05 24 91

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: L SANTEE — Signature: L Santee — Date: Month Day Year 05 24 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space
JL 1023105

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name: Thomas Brunty — Signature — Date: Month Day Year 5 29 91

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER 1-800-424-8802 24 HOURS A DAY

EPA Form 8700-22 (Rev 9-88)

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PR 5110 Rev 9/90

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DNR
MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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Form Approved OMB No. 2050-0039 Expires 8-30-91

Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, PA 1969

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: HJD002569715 — Manifest Document No.: 71107
2. Page 1 of 1
Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address: Essex Specialty Products, 1 Crossman Road, South, Sayreville, New Jersey 08872
4. Generator's Phone: (201) 727-2100
5. Transporter 1 Company Name: Horwith Trucks Incorporated
6. US EPA ID Number: PAD064035819
7. Transporter 2 Company Name:
8. US EPA ID Number:
9. Designated Facility Name and Site Address: Wayne Disposal, Inc., 49350 N. I-95 Service Drive, Belleville, MI 48111
10. US EPA ID Number: MID048090633

A. State Manifest Document Number: MI 2449195
B. State Generator's ID: SAME
C. State Transporter's ID: NJDEPS7110
D. Transporter's Phone: (800) 456-8007
E. State Transporter's ID:
F. Transporter's Phone:
G. State Facility's ID:
H. Facility's Phone: (313) 697-7830

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER)

	HM		12. Containers No	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	N/H
a	X	RQ Hazardous Waste Solid, N.O.S., [contains bis (2-ethyl hexyl) phthalate] ORM-E NA9188	001	DT	XXX18	YD	0028	
b								
c								
d								

J. Additional Descriptions for Materials Listed Above
Approval Number 32591WB
Trailer Number 102
Trailer Plate Number TN74985

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 628-6091

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 [illegible] OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste [illegible] that is available to me and that I can afford.

Printed/Typed Name: Raymond Yeddgeau — Signature: [signature] — Date: Month Day Year 05 29 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Harold Ziegenfus — Signature: [signature] — Date: Month Day Year 05 29 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date: Month Day Year

19. Discrepancy Indication Space
J.L.

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
1023085
Printed/Typed Name: Thomas Blunt — Signature: [signature] — Date: Month Day Year 05 30 91

EPA Form 8700-22 (Rev. 9/88)

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PR 5110 Rev. 8/90

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DNR
MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136 PA 1965

Please print or type

Form Approved OMB No. 2050-0039 Expires 5-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1 Generator's US EPA ID No: MI 0 0 0 2 5 6 8 7 1 5 — Manifest Document No: 9 1 1 1 0

2 Page 1 of 1

Information in the shaded areas is not required by Federal law

3 Generator's Name and Mailing Address
ESSEX Specialty Products
1 Crossman Road, South, Sayreville, New Jersey 08872

4 Generator's Phone (201) 727-2100

A. State Manifest Document Number: MI 2449190

B. State Generator's ID: SAME

5 Transporter 1 Company Name: Horwith Trucks Incorporated

6 US EPA ID Number: PAD 0 6 4 0 3 5 8 1 9

C. State Transporter's ID: NJDEPS7110

D. Transporter's Phone: (800) 456-8807

7 Transporter 2 Company Name: MOLA TRUCKING T/A MITCHKO

8 US EPA ID Number: NJD 0 0 2 7 7 9 2 6 2

E. State Transporter's ID: NJDS7095

F. Transporter's Phone: 2013343700

9 Designated Facility Name and Site Address
Wayne Disposal, Inc.
49350 N. I-95 Service Drive
Belleville, MI 48111

10 US EPA ID Number: MID 0 4 8 0 9 0 6 3 3

G. State Facility's ID:

H. Facility's Phone: (313) 697-7830

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER)	HM		12 Containers No	Type	13 Total Quantity	14 Unit Wt/Vol	I. Waste No.	N/H
a.	X	RQ Hazardous Waste Solid, N.O.S., [contains bis (2-ethyl hexyl) phthalate] ORM-E NA9188	001	DT	XXX118	YD	U028	
b.								
c.								
d.								

J. Additional Descriptions for Materials Listed Above
Approval Number 32591WB
Trailer Plate Number NJ 238-TSH
Trailer Number 32-1

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 626-6091

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.

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Printed/Typed Name: RAYMOND [illegible] — Signature: [signature] — Date: Month Day Year 05 29 91

17 Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: JERRY M. ULMER — Signature: Jerry M Ulmer — Date: Month Day Year 05 29 91

18 Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: JERRY M. ULMER — Signature: Jerry M Ulmer — Date: Month Day Year 05 29 91

19 Discrepancy Indication Space
T.C. #1023080

20 Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19
Printed/Typed Name: [signature] — Signature: [signature] — Date: Month Day Year 05 30 91

EPA Form 8700-22 (Rev. 9/88)

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PR 5110 Rev. 9/90

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DNR
MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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Form Approved OMB No 2050-0039 Expires 8-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1 Generator's US EPA ID No: NJ0002918715 Manifest Document No
2 Page 1 of 1
Information in the shaded areas is not required by Federal law

3 Generator's Name and Mailing Address
Essex Specialty Products
1 Crossman Road, South, Sayreville, New Jersey 08872

A. State Manifest Document Number: MI 2449186

4 Generator's Phone (201) 727-2100

B. State Generator's ID: SAME

5 Transporter 1 Company Name: Hondelli Trucks Incorporated
6 US EPA ID Number: MAD116403981

C. State Transporter's ID: NJDEPS7110

7 Transporter 2 Company Name: Mda Miscellaneous Trucking
8 US EPA ID Number: MDA000277912612

D. Transporter's Phone: (800) 456-8807

E. State Transporter's ID

F. Transporter's Phone

9 Designated Facility Name and Site Address
Wayne Disposal, Inc.
49350 N. I-94 Service Drive
Belleville, MI 48111
10 US EPA ID Number: MID048090633

G. State Facility's ID

H. Facility's Phone: (313) 697-7830

	11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM		12 Containers No	Type	13 Total Quantity	14 Unit WT/Vol	I. Waste No.	N/H
a.	X	RQ Hazardous Waste Solid, N.O.S., [contains bis (2-ethyl hexyl) phthalate] Q141-E NA9188	001	DT	XXXXXX	YD	U028	
b.								
c.								
d.								

J. Additional Descriptions for Materials Listed Above
Approval Number 32591 MB Trailer Plate #
Trailer #

K. Handling Codes for Wastes Listed Above
a/ /
b/ /
c/ /
d/ /

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 628-6091

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.

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Printed/Typed Name: Raymond Hendricks
Signature: [signature]
Date (Month Day Year): 05 31 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Jeff Coe
Signature: [signature]
Date (Month Day Year): 05 31 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: Jeff Coe
Signature: [signature]
Date (Month Day Year): 05 31 91

19. Discrepancy Indication Space
J.L.
#1023079

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Mark Cunyton
Signature: [signature]
Date (Month Day Year): 05 31 91

EPA Form 8700-22 (Rev. 9/85)
TSDF COPY
PR 6110 Rev 8-90

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DNR
MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136 PA 1969

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Form Approved OMB No 2050 0039 Expires 8 30 81

UNIFORM HAZARDOUS WASTE MANIFEST

1 Generator's US EPA ID No: NJD002568715 Manifest Document No: 9111112

2 Page 1 of 1

Information in the shaded areas is not required by Federal law

3 Generator's Name and Mailing Address: ESSEX SPECIALTY PRODUCTS, 1 Crossman Rd, South, SAYREVILLE, NEW JERSEY 08872

4 Generator's Phone (201) 727-2100

A. State Manifest Document Number: MI 2449201

B. State Generator's ID: SAME

5 Transporter 1 Company Name: HORWITH TRUCKS INCORPORATED

6 US EPA ID Number: NJD004403718 13

C. State Transporter's ID: NJDEPS7110

D. Transporter's Phone: (800) 451-8807

7 Transporter 2 Company Name:

8 US EPA ID Number:

E. State Transporter's ID:

F. Transporter's Phone:

9 Designated Facility Name and Site Address: WAYNE DISPOSAL, INC, 49350 N I-95 SERVICE DRIVE, BELLEVILLE, MI 48111

10 US EPA ID Number: MI2048090633

G. State Facility's ID:

H. Facility's Phone: (313) 697-7830

	11 US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER) HM		12 Containers No	Type	13 Total Quantity	14 Unit Wt/Vol	I. Waste No.	N/H
a	X	RQ HAZARDOUS WASTE SOLID, N.O.S. [CONTAINS BIS(2-ETHYL HEXYL) PHTHALATE] ORM-E NA9188	001	DT	XXX18	YD	U028	
b								
c								
d								

J. Additional Descriptions for Materials Listed Above: APPROVAL NUMBER 32591WB; TRAILER PLATE NUMBER PA TW02731; TRAILER NUMBER 120

K. Handling Codes for Wastes Listed Above: a/ / b/ / c/ / d/ /

15. Special Handling Instructions and Additional Information: 24 HR EMERGENCY RESPONSE NUMBER (800) 628-6091

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.

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Printed/Typed Name: RAYMOND YERGEAU — Signature: Raymond Yergeau — Date: Month Day Year: 05 29 91

17 Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: EARL KUNKEL — Signature: Earl Kunkel — Date: Month Day Year: 05 29 91

18 Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: — Signature: — Date: Month Day Year:

19. Discrepancy Indication Space: 1023072

20 Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19

Printed/Typed Name: Thomas Brunty — Signature: [signature] — Date: Month Day Year: 05 30 91

EPA Form 8700-22 (Rev. 9/88) TSDF COPY PR 8110 Rev 9/90

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STATE OF ILLINOIS

ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

P.O. BOX 19276 SPRINGFIELD ILLINOIS 62794-9276 (217) 782-6761

State Form LPC 62 8/81 IL532-0610

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter.) EPA Form 8700-22 (Rev. 9-88) Form Approved OMB No. 2050-0039, Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: IL000256871 5 — Manifest Document No: 7 7 7 2 1

2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but is required by Illinois law

3. Generator's Name and Mailing Address: Essex Specialty Products, 1 Crossman Road South, Sayreville, New Jersey 08872 — Location if Different:

4. Generator's Phone: (201) 727-2141

A. Illinois Manifest Document Number: IL 3581907 — FEE PAID IF APPLICABLE

B. Illinois Generator's ID: 0 8 0 0 2 3 7 6 4

5. Transporter 1 Company Name: Buffalo Fuel Corporation — 6. US EPA ID Number: NYD051809952

C. Illinois Transporter's ID: 1 6 2

D. (716) 720-[illegible] Transporter's Phone

7. Transporter 2 Company Name — 8. US EPA ID Number

E. Illinois Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address: Waste Waste Incineration, 7 Mobile Avenue, Sauget, IL 62201 — 10. US EPA ID Number: IL D 0 9 6 6 4 2 4 2 6

G. Illinois Facility's ID: 1 8 [illegible]

H. Facility's Phone: (618) [illegible]

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ Hazardous Waste Solid, N.O.S. (contains Bis (2-ethyl hexyl) phthalate) GHS-E 149163	001	CT		N	EPA HW Number: XX U028; Authorization Number:
b.					EPA HW Number: XX; Authorization Number:
c.					EPA HW Number: XX; Authorization Number:
d.					EPA HW Number: XX; Authorization Number:

J. Additional Description for Materials Listed Above: Trailer # 17-1416 — Trailer Plate # 5 9 0 2 D — Waste Profile # 8C380

K. Handling Codes for Wastes Listed Above: 1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information: 24 Hour Emergency response Number (300) 628-6091 Tock Fisner

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.

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Printed/Typed Name: — Signature: — Date: Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Edgi Abbott — Signature: [illegible] — Date: Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: — Signature: — Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: — Signature: — Date: Month Day Year

This Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111½ Section 21, that this information be submitted to the Agency. Failure to provide the information may result in a civil penalty against the owner or operator of not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

In case of a spill call the Illinois Office of Emergency Response at 217/782-3637 and the National Response Center at 800/424-8802 or 202/426-2675.

COPY 6. GENERATOR COPY

198

STATE OF ILLINOIS

ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

State Form LPC 62 8/81 IL532-0610

EPA Form 8700-22 (Rev. 9-88)

Form Approved OMB No. 2050-0039 Expires 9-30-91

EASE TYPE (Form designed for use on elite (12-pitch typewriter))

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: NJD002568715 — Manifest Document No.: [illegible]

2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address: Essex Specialty Products, 1 Crossman Road South, Sayreville, New Jersey, 08872 — Location If Different

4. Generator's Phone (201) 727-2100

5. Transporter 1 Company Name: Buffalo Fuel Corporation — 6. US EPA ID Number: NYD051809952

7. Transporter 2 Company Name — 8. US EPA ID Number

9. Designated Facility Name and Site Address: Trade Waste Incineration, 7 Mobile Avenue, Sauget, IL 62201 — 10. US EPA ID Number: ILD098642424

A. Illinois Manifest Document Number: IL 3581902 — FEE PAID IF APPLICABLE

B. Illinois Generator's ID: [illegible]

C. Illinois Transporter's ID: [illegible]

D. [illegible] Transporter's Phone

E. Illinois Transporter's ID: [illegible]

F. [illegible] Transporter's Phone

G. Illinois Facility's ID: [illegible]

H. Facility's Phone: [illegible]

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ Hazardous Waste Solid, N.O.S. [contains Bis (B-ethyl hexyl) phthalate] ORM-E NA9188	001	DT	[illegible]	Y	XX [illegible]
b.					XX
c.					XX
d.					XX

J. Additional Description for Materials Listed Above

Trailer # D-155 — No # W/A

Trailer Plate # 80777 ✓ — Waste Profile # AC7360

K. Handling Codes for Wastes Listed Above (Item 14): 1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information

24 Hour Emergency Response Number (800) 628-6091 Tuck Fisher

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.

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Printed/Typed Name — Signature — Date (Month Day Year)

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Robert R Casey — Signature: Robert R Casey — Date (Month Day Year): 11 15 91

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Date (Month Day Year)

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name — Signature — Date (Month Day Year)

This Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111½ Section 21, that this information be submitted to the Agency. Failure to provide the information may result in a civil penalty against the owner or operator of not to exceed $50,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 6. GENERATOR COPY

In case of a spill call the Illinois Office of Emergency Response at 217 / 782-3637 and the National Response Center at 800 / 424-8802 or 202 / 426-2675.

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STATE OF ILLINOIS

ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

P O BOX 19276 SPRINGFIELD ILLINOIS 62794-9276 (217) 782-6761

State Form LPC 62 8/91 IL532-0610

EPA Form 8700-22 (Rev. 9-88)

Form Approved OMB No. 2050-0039 Expires 9-30-91

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: NJD002568715 | Manifest Document No:

2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is required by Illinois law

3. Generator's Name and Mailing Address: Essex Specialty Products, 1 Crossman Road South, Sayreville, New Jersey 08872

Location If Different:

4. Generator's Phone (201) 727-2100

5. Transporter 1 Company Name: Buffalo Fuel Corporation

6. US EPA ID Number: NYD051809952

7. Transporter 2 Company Name:

8. US EPA ID Number:

9. Designated Facility Name and Site Address: Trade Waste Incineration, 7 Mobile Avenue, Sauget, Il 62201

10. US EPA ID Number: ILD098642424

A. Illinois Manifest Document Number: JL 3581808 FEE PAID IF APPLICABLE

B. Illinois Generator's ID: 934023756

C. Illinois Transporter's ID: 7829

D. (716) 773-4821 Transporter's Phone

E. Illinois Transporter's ID:

F. Transporter's Phone

G. Illinois Facility's ID: 8 3 2 1 0 0 8 1

H. Facility's Phone: (800) 571-[illegible]

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ Hazardous Waste Solid, N.O.S. [contains Bis (2-ethyl hexyl) phthalate] ORM-E NA3135	001	DT		YD	EPA HW Number: XX 0028; Authorization Number:
b.					EPA HW Number: XX; Authorization Number:
c.					EPA HW Number: XX; Authorization Number:
d.					EPA HW Number: XX; Authorization Number:

J. Additional Description for Materials Listed Above

Trailer # D-154 MO # N/A

Trailer Plate # EC748V Waste Profile # AC2360

K. Handling Codes for Wastes Listed Above (in Item 11)

1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information

24 Hour Emergency Response Number (800) 628-6091 Tuck Fisher

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: Raymond Yerger | Signature: [signature] | Date: Month Day Year: 11 18 91

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Chris Howard | Signature: [signature] | Date: Month Day Year: 11 18 91

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: | Signature: | Date: Month Day Year:

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: | Signature: | Date: Month Day Year:

This Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111½ Section 21, that this information be submitted to the Agency. Failure to provide the information may result in a civil penalty against the owner or operator of not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

In case of a spill call the Illinois Office of Emergency Response at 217/782-3637 and the National Response Center at 800/424-8802 or 202/426-2675.

COPY 6. GENERATOR COPY

200

STATE OF ILLINOIS

ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

P O BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

State Form LPC 62 8/81 IL532-0610

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter) EPA Form 8700-22 (Rev. 9-88) Form Approved OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NJD002568715 — Manifest Document No.

2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but is required by Illinois law

3. Generator's Name and Mailing Address — Location if Different.
Essex Specialty Products
1 Crossman Road South, Sayreville, New Jersey, 08872

4. Generator's Phone ( )

5. Transporter 1 Company Name — 6. US EPA ID Number
Buffalo Fuel Corporation — NYD051809852

7. Transporter 2 Company Name — 8. US EPA ID Number

9. Designated Facility Name and Site Address — 10. US EPA ID Number
Trade Waste Incineration
7 Mobile Avenue
Sauget, IL 62201 — ILD099662228

A. Illinois Manifest Document Number: IL 3581911 PAID APPLICABLE
B. Illinois Generator's ID: 0 3 4 0 2 3 7 5 4
C. Illinois Transporter's ID: 1429
D. (201) 770-6021 Transporter's Phone
E. Illinois Transporter's ID
F. Transporter's Phone
G. Illinois Facility's ID: 0 1 1 5 1 2 1 0 0 0 1
H. Facility's Phone (618) 271-6000

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ Hazardous Waste Solid, N.O.S. (contains Bis (2-ethylhexyl) phthalate) UN9003	0.0.1	UT		YJ	X X 1 1 0 2 8
b.					X X
c.					X X
d.					X X

J. Additional Description for Materials Listed Above
Trailer # D143 ID # N/A
Trailer Plate # 85T050 Waste Profile # 42380

K. Handling Codes for Wastes Listed Above
1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information

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.

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Printed/Typed Name: Raymond Hoffman — Signature: [signature] — Date: Month Day Year 11 17 9

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Henry E. Kirk — Signature: Henry E. Kirk — Date: Month Day Year 11 17 89

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name — Signature — Date: Month Day Year

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COPY 6. GENERATOR COPY

201

STATE OF ILLINOIS

ENVIRONMENTAL PROTECTION AGENCY / DIVISION OF LAND POLLUTION CONTROL

P O BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

State Form LPC 62 8/81 IL532-0610

EPA Form 8700-22 (Rev. 9-88)

Form Approved OMB No 2050-0039 Expires 9-30-91

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NJD002568715 — Manifest Document No. 20023

2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is required by Illinois law

3. Generator's Name and Mailing Address — Location If Different

Essex Specialty Products
1 Crossman Road South, Sayreville, New Jersey 08872

4. Generator's Phone (201) 727-2101

5. Transporter 1 Company Name — 6. US EPA ID Number

Buffalo Fuel Corporation — NYD051809952

7. Transporter 2 Company Name — 8. US EPA ID Number

9. Designated Facility Name and Site Address — 10. US EPA ID Number

Trade Waste Incineration
7 Mobile Avenue
Sauget, IL 62201

ILD059642878

A. Illinois Manifest Document Number: IL 3581913 FEE PAID IF APPLICABLE

B. Illinois Generator's ID: 0 3 4 0 2 3 7 5 4

C. Illinois Transporter's ID

D. ( ) Transporter's Phone

E. Illinois Transporter's ID

F. ( ) Transporter's Phone

G. Illinois Designated Facility's ID: 1 1 3 2 1 0 0 1

H. Facility's Phone ( )

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ Hazardous Waste Solid, N.O.S. (contains Bis (2-ethyl hexyl) phthalate) UN-NA 9189	001	DT		Y	XX 1 0 2 8
b.					XX
c.					XX
d.					XX

J. Additional Description for Materials Listed Above

Trailer # D-157 NO # N/A

Trailer Plate # 43704T Waste Profile # 10790

K. Handling Codes for Wastes Listed Above

1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information

24 Hour Emergency Response Number (800) 626-6091 Tuck Fisher

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.

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Printed/Typed Name: RAYMOND VERGEN — Signature — Date: Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Date: Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name — Signature — Date: Month Day Year

This Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111½ Section 21, that this information be submitted to the Agency. Failure to provide the information may result in a civil penalty against the owner or operator of not to exceed $25,000 per day of violation. Publication of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

In case of a spill call the Illinois Office of Emergency Response at 217 / 782-3637 and the National Response Center at 800 / 424-8802 or 202 / 426-2675.

COPY 6. GENERATOR COPY

202

STATE OF ILLINOIS — ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

P.O. BOX 19276 SPRINGFIELD ILLINOIS 62794 9276 (217) 782-6761

State Form LPC 52 8/91 IL532-0610

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter.) EPA Form 8700-22 (Rev. 9-88) Form Approved OMB No. 2050-0039 Expires 8-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: N J D 0 0 2 5 6 6 7 1 5 — Manifest Document No.: 1 2 0 1 0

2. Page 1 of 1

Information in the shaded areas is not required by Federal law but is required by Illinois law

3. Generator's Name and Mailing Address: Essex Specialty Products, 1 Crossman Road South, Sayreville, New Jersey 08872 — Location if Different

4. Generator's Phone (201) 727-2100

5. Transporter 1 Company Name: Buffalo Fuel Corporation — 6. US EPA ID Number: N Y D 0 5 1 8 0 9 9 5 2

7. Transporter 2 Company Name — 8. US EPA ID Number

9. Designated Facility Name and Site Address: Trade Waste Incineration, 7 Mile Avenue, Sauget, IL 6[illegible] — 10. US EPA ID Number: I L D 0 9 8 6 8 2 4 2 8

A. Illinois Manifest Document Number: IL 3581905 FEE PAID IF APPLICABLE

B. Illinois Generator's ID: 0 1 4 0 2 3 7 5 4

C. Illinois Transporter's ID: 1 4 2 9

D. (718) 773-1821 Transporter's Phone

E. Illinois Transporter's ID

F. ( ) Transporter's Phone

G. Illinois Facility's ID: 0 1 8 1 8 1 0 0 0 1

H. Facility's Phone: (618) [illegible]

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. Hazardous Waste Solid, N.O.S. (contains Bis (2-ethyl hexyl) phthalate) UN2 NA9189	0 0 1	DT	1 0	Y	EPA HW Number X X U 0 2 1 / Authorization Number
b.					EPA HW Number X X / Authorization Number
c.					EPA HW Number X X / Authorization Number
d.					EPA HW Number X X / Authorization Number

J. Additional Description for Materials Listed Above: Trailer # D-144 Seal # N/A; Trailer Place # EE248D; Manifest Profile # AC7360

K. Handling Codes for Wastes Listed Above in Item J-I: 1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information: 24 hour Emergency Response Number (600) 628-6091 Tuck Fisher

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.

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Printed/Typed Name — Signature — Date (Month Day Year)

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Frank Dolan — Signature: Frank Dolan — Date: 1 1 / 1 5 / 9 1

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Date (Month Day Year)

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name — Signature — Date (Month Day Year)

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COPY 6. GENERATOR COPY

203

STATE OF ILLINOIS

ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

P O BOX 19276 SPRINGFIELD, ILLINOIS 62794 9276 (217) 782-6761

LEASE TYPE

State Form LPC 62 8/81 IL532-0610

(Form designed for use on elite (12-pitch) typewriter.) EPA Form 8700-22 (Rev. 9-88)

Form Approved OMB No 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: NJ 0002568715

Manifest Document No.: 170

2. Page 1 of 1

Information in the shaded areas is not required by Federal law but is required by Illinois law

3. Generator's Name and Mailing Address: Essex Specialty Product, 1 Crossman Road South, Sayreville, New Jersey 08872

Location if Different:

4. Generator's Phone (201) 727-2100

5. Transporter 1 Company Name: Buffalo Fuel Corporation

6. US EPA ID Number: NYD051809952

7. Transporter 2 Company Name:

8. US EPA ID Number:

9. Designated Facility Name and Site Address: Trade Waste Incineration, 7 Hobile Avenue, Sauget, IL 62201

10. US EPA ID Number: ILD098642422

A. Illinois Manifest Document Number: IL 8581906 FEE PAID IF APPLICABLE

B. Illinois Generator's ID: 0 34 02 3 7 5 4

C. Illinois Transporter's ID: 1 4 2

D. (716) 272-[illegible] Transporter's Phone

E. Illinois Transporter's ID

F. ( ) Transporter's Phone

G. Illinois Designated Facility's EPA Site Number: ILD 0 9 8 6 4 2 4 2 2

H. Facility's Phone: (618) 271-[illegible]

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. Hazardous Waste Solid, N.O.S. (contains bis (2-ethyl Hexyl) phthalate) (UN 9189)	001	DT	18	W	X X D028
b.					X X
c.					X X
d.					X X

J. Additional Description for Materials Listed Above

Trailer # D-121 N/A

Trailer Plate # 451149C Waste Profile # [illegible]

K. Handling Codes for Wastes Listed Above

1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information

24 Hour Emergency Response Number (800) 626-6091 Tuck Fisher

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.

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Printed/Typed Name | Signature | Date Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: STEVEN J. SCHAFF | Signature | Date Month Day Year: 1 1 1 5 9 1

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name | Signature | Date Month Day Year

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COPY 6. GENERATOR COPY

204

STATE OF ILLINOIS

ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

State Form · LPC 62 8/81 IL532-0610

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter) EPA Form 8700-22 (Rev. 9-88) Form Approved OMB No 2050-0039 Expires 8-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. ILD000256871 5 Manifest Document No. 77122

2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is required by Illinois law

3. Generator's Name and Mailing Address: Essex Specialty Products, 1 Crossman Road South, Sayreville, New Jersey 08872

Location If Different

4. Generator's Phone (201) 727-2100

A. Illinois Manifest Document Number: IL 8581910 FEE PAID IF APPLICABLE

B. Illinois Generator's ID: 0 3 6 0 2 3 7 5 4 8

5. Transporter 1 Company Name: Buffalo Fuel Corporation

6. US EPA ID Number: NYD051809952

C. Illinois Transporter's ID: 7629

D. (716) 873-8021 Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

E. Illinois Transporter's ID

F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address: Trade Waste Incineration, 7 Mobile Avenue, Sauget, IL 62201

10. US EPA ID Number: ILD099642222

G. Illinois Facility's ID: 0 3 1 2 1 0 0 0 1

H. Facility's Phone ( ) 271-2000

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. Hazardous Waste Solid, N.O.S. (contains Bis (2-ethyl hexyl) phthalate) ORHE N9188	001	DT	00018	P	X X 1 0 2 8
b.					X X
c.					X X
d.					X X

J. Additional Description for Materials Listed Above: Trailer # D-156 Seal # [illegible] Trailer Plate # [illegible] Waste Profile # [illegible]

K. Handling Codes for Wastes Listed Above: 1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information

24 Hour Emergency Response Number (800) 631-6091 Tuck Fisher

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.

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Printed/Typed Name | Signature | Date Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Robert T Morrison | Signature: Robert T Morrison | Date Month Day Year: 11 15 91

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name | Signature | Date Month Day Year

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COPY 6. GENERATOR COPY

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STATE OF ILLINOIS

ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

P O BOX 19276 , SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

State Form LPC 62 8/91 IL532-0610

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter.) EPA Form 8700-22 (Rev. 9-88) Form Approved OMB No 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. | Manifest Document No: ILD002568715 | 00127

2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is required by Illinois law

3. Generator's Name and Mailing Address | Location If Different.

Essex Specialty Products
1 Crossman Road South, Sayreville, New Jersey 08872

4. Generator's Phone (201) 727-2100

5. Transporter 1 Company Name: Horwith Trucking Inc.

6. US EPA ID Number: PAD064035818

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address: Trade Waste Incineration, 7 Mobile Ave, Sauget, Illinois 62201

10. US EPA ID Number: ILD098642424

A. Illinois Manifest Document Number: IL 3581915 FEE PAID IF APPLICABLE

B. Illinois Generator's ID

C. Illinois Transporter's ID

D. (818) 351-2220 Transporter's Phone

E. Illinois Transporter's ID

F. ( ) Transporter's Phone

G. Illinois Facility's ID

H. Facility's Phone (618) 378-3904

GENERATOR

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	L Waste No.
a. RQ Hazardous Waste Solid, N.O.S. (contains Bis (2-ethyl hexyl phthalate)) ORM-E NA9189	001	DT	00018	YD	XX 110218
b.					XX
c.					XX
d.					XX

J. Additional Description for Materials Listed Above

Trailer #116 Work Order #

Trailer Plate # R-17R01 Waste Profile #

K. Handling Codes for Wastes Listed Above (In Item 14)

1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information

24 Hour Emergency Response Number (800) 628-6091 - Tack Fisher

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.

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Printed/Typed Name: RAYMONDS YANCEY | Signature | Date: Month Day Year 11 17 91

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: KEITH FRITZ | Signature | Date: Month Day Year 11 17 91

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date: Month Day Year

19. Discrepancy Indication Space

FACILITY

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name | Signature | Date: Month Day Year

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COPY 5. GENERATOR MAIL TO IEPA

206

STATE OF ILLINOIS

ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

State Form LPC 62 8/91 IL582-0610

EPA Form 8700-22 (Rev. 9-88)

Form Approved OMB No. 2050-0039, Expires 6-30-91

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. I J D 0 0 2 5 6 8 7 1 5 | Manifest Document No. 00126

2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is required by Illinois law

3. Generator's Name and Mailing Address: Essex Specialty Products, 1 Crossman Road South, Sayreville, New Jersey 08872 — Location if Different

4. Generator's Phone (201) 727-2100

5. Transporter 1 Company Name: Meredith Trucking, Inc. — 6. US EPA ID Number: P A D 0 6 4 0 3 5 8 1 0

7. Transporter 2 Company Name — 8. US EPA ID Number

9. Designated Facility Name and Site Address: Waste Waste Incineration, 7 Mobile Avenue, Sauget, Illinois 62201 — 10. US EPA ID Number: I L D 0 9 8 6 4 2 4 2 4

A. Illinois Manifest Document Number: IL 3581914 — FEE PAID OR NOT APPLICABLE

B. Illinois Transporter's ID: 1 0 0 0 2 3 7 5 8

C. Illinois Transporter's ID: 2 0 6 1

D. (618) 281-6220 Transporter's Phone

E. Illinois Transporter's ID

F. Transporter's Phone

G. Illinois Facility's ID: 1 1 3 1 2 1 0 0 1

H. Facility's Phone: (618) 271-2864

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ Hazardous Solid, N.O.S. (contains Bis (2-ethyl hexyl phthalate)) ORM-E NA9188	0 0 1	DT	0 0 0 1 8	YD	X X 1 0 2 8
b.					X X
c.					X X
d.					X X

J. Additional Description for Materials Listed Above: Trailer # ; Work Order # ; Trailer Plate # 121 ; Waste Profile AC780

K. Handling Codes for Wastes Listed Above in Item 14: 1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information

24 Hour Emergency Response Number (800) 526-6091 — Tuck Fisher

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: RAYMOND YERGEAU — Signature — Date: Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: JIM NEUMANN — Signature — Date: Month Day Year 1 1 9 9 1

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name — Signature — Date: Month Day Year

This Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111½ Section 21, that this information be submitted to the Agency. Failure to provide this information may result in a civil penalty against the owner or operator of not to exceed $50,000 per day of violation. Publication of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 5. GENERATOR MAIL TO IEPA

207

STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

State Form LPC 62 8/81 IL532-0610

21.70 TNS

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter) EPA Form 8700-22 (Rev. 9-88) Form Approved OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NJD002568715 — Manifest Document No.: 00135

2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but is required by Illinois law

3. Generator's Name and Mailing Address — Location if Different:
Essex Specialty Products
1 Crossman Road South, Sayreville, New Jersey 08872

4. Generator's Phone (~~201~~ 908) 727-2100

A. Illinois Manifest Document Number: IL 3633807 — FEE PAID IF APPLICABLE

B. Illinois Generator's ID: 9 3 4 0 2 3 7 5 4 8

5. Transporter 1 Company Name: Buffalo Fuel Corporation — 6. US EPA ID Number: NYD051809952

D. Illinois Transporter's ID: 1429 — D. (716) 773-1921 Transporter's Phone

7. Transporter 2 Company Name — 8. US EPA ID Number

E. Illinois Transporter's ID — E. Transporter's Phone

9. Designated Facility Name and Site Address — 10. US EPA ID Number
Trade Waste Incineration
7 Mobile Avenue
Sauget, Ill 62201
ILD098642424

G. Illinois Facility's ID: 1 6 3 1 2 1 0 0 0 9

H. Facility's Phone: (618) 271-2804

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a. RQ Hazardous Waste Solid, N.O.S. [contains Bis (2-ethyl hexyl) phthalate] ORM-E NA9188	0 0 1	DT	00018	CY	EPA HW Number: XX U028 — Authorization Number: 09 0001
b.					EPA HW Number: XX — Authorization Number
c.					EPA HW Number: XX — Authorization Number
d.					EPA HW Number: XX — Authorization Number

J. Additional Description for Materials Listed Above
Trailer Number ~~D-102~~ D-102 Work Order # 92012403
Trailer Plate # 46785A Waste Profile # AC7360

K. Handling Codes for Wastes Listed Above in Item #14
1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 628-6091 Tuck Fisher

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.

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Printed/Typed Name: RAYMOND YERGEAU — Signature: Raymond Yergeau — Date (Month Day Year): 01 20 92

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: ~~Ray~~ Wayne A Rupp — Signature: Wayne A Rupp — Date (Month Day Year): 01 20 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date (Month Day Year)

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. — Date (Month Day Year)
Printed/Typed Name — Signature

GENERATOR — TRANSPORTER — FACILITY

This Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111½ Section 21, that this information be submitted to the Agency. Failure to provide the information may result in a civil penalty against the owner or operator of not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR

In case of a spill call the Illinois Office of Emergency Response at 217 / 782-3637 and the National Response Center at 800 / 424-8802 or 202 / 426-2675.

208

STATE OF ILLINOIS — ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

State Form LPC 62 8/81 IL532-0610

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter.) EPA Form 8700-22 (Rev. 9-88) Form Approved OMB No. 2050-0039 Expires 8-30-91

22.17 TNS

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NJD002568715 Manifest Document No. 00136

2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is required by Illinois law

3. Generator's Name and Mailing Address: Essex Specialty Products, 1 Crossman Road South, Sayreville, New Jersey 08872

Location if Different:

4. Generator's Phone (201 908) 727-2100

A. Illinois Manifest Document Number: IL 3633821 FEE PAID IF APPLICABLE

B. Illinois Generator's ID: 913410013754 8

5. Transporter 1 Company Name: Buffalo Fuel Corporation

6. US EPA ID Number: NYD051809952

C. Illinois Transporter's ID: 1142 9

D. (716) 773-1921 Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

E. Illinois Transporter's ID

F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address: Trade Waste Incineration, 7 Mobile Avenue, Sauget, Il 62201

10. US EPA ID Number: ILD098642424

G. Illinois Facility's ID: 1631210009

H. Facility's Phone: (618) 271-2804

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ Hazardous ~~Waste~~ Solid, N.O.S. [contains Bis (2-ethyl hexyl) phthalate] ORM-E NA9188	001	DT	00018	Y	EPA HW Number: XXU028; Authorization Number: 990001
b.					EPA HW Number: XX; Authorization Number:
c.					EPA HW Number: XX; Authorization Number:
d.					EPA HW Number: XX; Authorization Number:

J. Additional Description for Materials Listed Above: Trailer Plate Number 553280 Work Order Number 92012304 Trailer # D135 Waste Profile # - AC7360

K. Handling Codes for Wastes Listed Above in Item #14: 1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information: 24 Hour Emergency Response Number (800) 628-6091 Tuck Fisher

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: RAYMOND YERGEAU Signature: Raymond Yergeau Date (Month Day Year): 01 20 92

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: CLIFT WEAVER Signature: Clint Weaver Date (Month Day Year): 01 20 92

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: Signature: Date (Month Day Year):

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name: Signature: Date (Month Day Year):

GENERATOR — TRANSPORTER — FACILITY

In case of a spill call the Illinois Office of Emergency Response at 217/782-3637 and the National Response Center at 800/424-8802 or 202/426-2675.

The Agency is authorized to require this information under Illinois Revised Statutes, Chapter 111½, Section 21. But this information is submitted to the Agency. Failure to provide the information may result in a civil penalty against the owner or operator of not to exceed $25,000 per day of violation. Falsification of the information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR

25TH

209

STATE OF ILLINOIS

ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

State Form LPC 62 8/91 IL532-0610

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter) EPA Form 8700-22 (Rev. 9-88) Form Approved OMB No. 2050-0039 Expires 9-30-91

23.41 TNS

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NJD002568715 — Manifest Document No.: 00138

2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but is required by Illinois law

3. Generator's Name and Mailing Address — Location if Different:
Essex Specialty Products
1 Crossman Road South, Sayreville, New Jersey 08872

4. Generator's Phone (201) 727-2100

A. Illinois Manifest Document Number: IL 3633810 FEE PAID IF APPLICABLE

B. Illinois Generator's ID: 9 3 4 0 2 3 7 5 4 8

5. Transporter 1 Company Name: Horwith trucks Inc.

6. US EPA ID Number: PAD 064035819

C. Illinois Transporter's ID: SWH 2061

D. 800 456 880 Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

E. Illinois Transporter's ID

F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address:
Trade Waste Incineration
7 Mobile Avenue
Sauget, Il 62201

10. US EPA ID Number: ILD098642424

G. Illinois Facility's ID: 1 6 3 1 2 1 0 0 0 9

H. Facility's Phone: 6182712804

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a. RQ Waste Hazardous Solid, N.O.S. [contains Bis (2-ethyl hexyl) phthalate] ORM-E NA9188	0 01	DT	0001 8	cy	EPA HW Number: XX 0 0 2 8; Authorization Number: 09 0 0 0 1
b.					EPA HW Number: XX; Authorization Number:
c.					EPA HW Number: XX; Authorization Number:
d.					EPA HW Number: XX; Authorization Number:

J. Additional Description for Materials Listed Above
Trailer # 192 WO # 92012301
Trailer Plate # TK24298 Waste Profile # AC7360

K. Handling Codes for Wastes Listed Above in Item #14
1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information
24-Hour Emrgency Response Number (800) 628-6091 Tuck Fisher

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: RAYMOND YERGEAU — Signature: Raymond Yergeau — Date (Month Day Year): 01 20 92

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Kelly Dishman — Signature: Kelly Dishman — Date (Month Day Year): 01 20 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date (Month Day Year)

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name — Signature — Date (Month Day Year)

GENERATOR — TRANSPORTER — FACILITY

This Agency is authorized to require pursuant to Illinois Revised Statutes, Chapter 111½, Section 21, that this information be submitted to the Agency. Failure to provide the information may result in a civil penalty against the owner or operator of not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR

In case of a spill call the Illinois Office of Emergency Response at 217 / 782-3637 and the National Response Center at 800 / 424-8802 or 202 / 426-2675.

210

P O BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

State Form LPC 62 8/81 IL532-0610

22.85 TNS

LEASE TYPE (Form designed for use on elite (12-pitch) typewriter) EPA Form 8700-22 (Rev. 9-88) Form Approved OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NJD002568715 — Manifest Document No.: 00137

2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but is required by Illinois law

3. Generator's Name and Mailing Address — Location If Different:
Essex Specialty Products
1 Crossman Road South, Sayreville, New Jersey 08872

4. Generator's Phone (201) 727-2100

A. Illinois Manifest Document Number: IL 3633811 — FEE PAID IF APPLICABLE

B. Illinois Generator's ID: 9340237548

C. Illinois Transporter's ID: SWH 2061

D. 800 456 8809 — Transporter's Phone

E. Illinois Transporter's ID:

F. ( ) Transporter's Phone

G. Illinois Facility's ID: 1631210009

H. Facility's Phone: 618-271-2804

5. Transporter 1 Company Name: Horwith Trucks Inc. — 6. US EPA ID Number: PAD064035819

7. Transporter 2 Company Name — 8. US EPA ID Number:

9. Designated Facility Name and Site Address:
Trade Waste Incineration
7 Mobile Avenue
Sauget, Il 62201

10. US EPA ID Number: ILD098642424

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a. RQ Hazardous ~~Waste~~ Solid, N.O.S. [contains Bis (2-ethyl hexyl) phthalate] ORM-E NA9188	001	DT	0001	BCY	EPA HW Number: XX 1028; Authorization Number: 070001
b.					EPA HW Number: XX; Authorization Number:
c.					EPA HW Number: XX; Authorization Number:
d.					EPA HW Number: XX; Authorization Number:

J. Additional Description for Materials Listed Above
Trailer # 198 WO# 920123 02
Trailer Plate Number TW66786 Waste Profile # AC7360

K. Handling Codes for Wastes Listed Above In Item #14
1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (88) 628-6091 Tuck Fisher

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.

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Printed/Typed Name: RAYMOND YERGEAU — Signature: Raymond Yergeau — Date: Month Day Year: 01 20 92

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: ELDEN WERLEY — Signature: Elden Werley — Date: Month Day Year: 01 20 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19
Printed/Typed Name — Signature — Date: Month Day Year

This Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111½, Section 21, that this information be submitted to the Agency. Failure to provide the information may result in a civil penalty against the owner or operator of not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR

In case of a spill call the Illinois Office of Emergency Response at 217 / 782-3637 and the National Response Center at 800 / 424-8802 or 202 / 426-2675.

211

P O BOX 19276 SPRINGFIELD, ILLINOIS 62794 9276 (217) 782 6761

State Form LPC 62 8/81 IL532-0610

EPA Form 8700-22 (Rev. 9-88)

21.81 TNS

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter.)

Form Approved OMB No 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NJD002568715 Manifest Document No. 100133

2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is required by Illinois law

3. Generator's Name and Mailing Address: Essex Specality Products, 1 Crossman Road South, Sayreville, New Jersey 08872

Location If Different:

4. Generator's Phone (201) 727-2100

A. Illinois Manifest Document Number: IL 3633808 FEE PAID IF APPLICABLE

B. Illinois Generator's ID 0 3 4 0 2 3 7 5 4 8

5. Transporter 1 Company Name: Buffalo Fuel Corporation

6. US EPA ID Number: NYD051809952

C. Illinois Transporter's ID 1429

D. (716) 773-1921 Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

E. Illinois Transporter's ID

F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address: Trade Waste Incineration, 7 Mobile Avenue, Sauget, IL 62201

10. US EPA ID Number: ILD098642424

G. Illinois Facility's ID 1 6 3 1 2 1 0 0 0 9

H. Facility's Phone 618) 271-2804

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a. RQ Hazardous ~~Waste~~ Solid, N.O.S. [contains Bis(2-ethyl hexyl) phthalate] ORM-E NA9188	001	DT	00018	CY	EPA HW Number XX102 8; Authorization Number 090001
b.					EPA HW Number XX; Authorization Number
c.					EPA HW Number XX; Authorization Number
d.					EPA HW Number XX; Authorization Number

J. Additional Description for Materials Listed Above

Trailer # D-155 Work Order # 92012202

Trailer Plate # E07777V Waste Profile # AC7360

K. Handling Codes for Wastes Listed Above in Item #14

1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information

24 Hour Emergency Response Number (800) 628-6091 Tuck Fisher

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of the 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.

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GENERATOR

Printed/Typed Name: RAYMOND YERGEAU Signature: Raymond Yergeau Date: Month Day Year 01 20 92

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: ROBERT M. GRAF Signature: Date: Month Day Year 01 20 92

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name Signature Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name Signature Date: Month Day Year

In case of a spill call the Illinois Office of Emergency Response at 217/782-7860 and the National Response Center at 800/424-8802 or 202/426-2675.

This Agency is authorized to require pursuant to Illinois Revised Statutes, Chapter 111½ Section 21, that this information be submitted to the Agency. Failure to provide the information may result in a civil penalty against the owner or operator of not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR

212

P O BOX 19276 SPRINGFIELD, ILLINOIS 62794 9276 (217) 782 6761

State Form LPC 82 8/81 IL532-0610

PLEASE TYPE (Form designed for use on elite (12 pitch) typewriter) EPA Form 8700-22 (Rev. 9-88) Form Approved OMB No 2050-0039 Expires 9-30-81

21.81 TNS

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NJD002568715 — Manifest Document No.: 100133

2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but is required by Illinois law

3. Generator's Name and Mailing Address: Essex Specailty Products, 1 Crossman Road South, Sayreville, New Jersey 08872 — Location If Different:

4. Generator's Phone (201) 727-2100

A. Illinois Manifest Document Number: IL 3633808 — FEE PAID IF APPLICABLE

B. Illinois Generator's ID: 9 3 4 0 2 3 7 5 4 8

5. Transporter 1 Company Name: Buffalo Fuel Corporation — 6. US EPA ID Number: NYD051809952

C. Illinois Transporter's ID: 1429

D. (716) 773-1921 Transporter's Phone

7. Transporter 2 Company Name — 8. US EPA ID Number

E. Illinois Transporter's ID

F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address: Trade Waste Incineration, 7 Mobile Avenue, Sauget, IL 62201 — 10. US EPA ID Number: ILD098642424

G. Illinois Facility's ID: 1 6 3 1 2 1 0 0 0 9

H. Facility's Phone: 618) 271-2804

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a. RQ Hazardous ~~Waste~~ Rq Solid, N.O.S. [contains Bis(2-ethyl hexyl) phthalate] ORM-E NA9188	0 0 1	DT	00018	CY	EPA HW Number: XX U028 — Authorization Number: 090001
b.					EPA HW Number: XX — Authorization Number
c.					EPA HW Number: XX — Authorization Number
d.					EPA HW Number: XX — Authorization Number

J. Additional Description for Materials Listed Above: Trailer # D-155 — Work Order # 92012202 — Trailer Plate # E0777V — Waste Profile # AC7360

K. Handling Codes for Wastes Listed Above in Item #14: 1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information: 24 HourEmergency Response Number (800) 628-6091 — Tuck Fisher

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Printed/Typed Name: RAYMOND YERGEAU — Signature: Raymond Yergeau — Date: Month Day Year: 01 20 92

17. Transporter 1 Acknowledgement of Receipt of Materials — Printed/Typed Name: ROBERT M. GRAF — Signature: [signature] — Date: Month Day Year: 01 20 92

18. Transporter 2 Acknowledgement of Receipt of Materials — Printed/Typed Name — Signature — Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. — Printed/Typed Name — Signature — Date: Month Day Year

GENERATOR — TRANSPORTER — FACILITY

In case of a spill call the Illinois Office of Emergency Response at 217 / 782-3637 and the National Response Center at 800 / 424-8802 or 202 / 426-2675.

This Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111½ Section 21, that this information be submitted to the Agency. Failure to provide the information may result in a civil penalty against the owner or operator of not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR

213

STATE OF ILLINOIS

ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

State Form LPC 62 8/91 IL532-0610

EPA Form 8700-22 (Rev. 9-88)

21.24 TNS

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter.)

Form Approved OMB No. 2060-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NJD002568715 — Manifest Document No.: 00134

2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address: Essex Specialty Products, 1 Crossman Road South, Sayreville, New Jersey 08872 — Location if Different:

4. Generator's Phone (201) 727-2100

A. Illinois Manifest Document Number: IL 3633806 — FEE PAID IF APPLICABLE

B. Illinois Generator's ID: 9 3 4 0 2 3 7 5 4 8

5. Transporter 1 Company Name: Buffalo Fuel Corporation — 6. US EPA ID Number: NYD051809952

C. Illinois Transporter's ID: 1429

D. (716) 773-1921 Transporter's Phone

7. Transporter 2 Company Name — 8. US EPA ID Number

E. Illinois Transporter's ID: 1429

F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address: Trade Waste Incineration, 7 Mobile Avenue, Sauget, Il 62201 — 10. US EPA ID Number: ILD098642424

G. Illinois Facility's ID: 1 6 3 1 2 1 0 0 0 9

H. Facility's Phone: (618) 271-2804

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a. RQ Hazardous ~~Waste~~ Solid, N.O.S. [contains Bis (2-ethyl hexyl) phthalate] ORM-E NA9188	001	DT	00018	cy	EPA HW Number: XX 0028; Authorization Number: 090001
b.					EPA HW Number: XX; Authorization Number:
c.					EPA HW Number: XX; Authorization Number:
d.					EPA HW Number: XX; Authorization Number:

J. Additional Description for Materials Listed Above: Trailer # D-145 — Work Order # 92012203 — Trailer Plate # E64020 — WasteProfile # AC7360

K. Handling Codes for Wastes Listed Above in Item #14: 1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information

24 Hour Emergency Response Number (800) 628-6091 Tuck Fisher

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: RAYMOND YERGEAU — Signature: Raymond Yergeau — Date: Month Day Year: 01 20 92

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: ERIC Elenfeldt — Signature: Eric Elenfeldt — Date: Month Day Year: 01 20 92

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: ~~ERIC Elenfeldt~~ — Signature: — Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name — Signature — Date: Month Day Year

GENERATOR — TRANSPORTER — FACILITY

This Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111½, Section 21, that this information be submitted to the Agency. Failure to provide the information may result in a civil penalty against the owner or operator of not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR

214

Please call the Illinois Office of Emergency Response at 217 / 782-3637 and the National Response Center at 800 / 424-8802 or 202 / 426-2675.

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter.)

State Form LPC 62 & 81 IL 32-0610
EPA Form 8700-22 (Rev. 9-88)

Form Approved OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: NJD002568715 — Manifest Document No: 00121

2. Page 1 of 1

Information in the shaded areas is not required by Federal law but is required by Illinois law.

3. Generator's Name and Mailing Address — Location if Different

Essex Specialty Products
1 Crossman Road South, Sayreville, New Jersey 08872 — 21.87 TNS

4. Generator's Phone (201) 727-2100

A. Illinois Manifest Document Number: IL 3581907 — FEE PAID IF APPLICABLE

B. Illinois Generator's ID: 9340237548

5. Transporter 1 Company Name: Buffalo Fuel Corporation

6. US EPA ID Number: NYD051809952

C. Illinois Transporter's ID: 1429

D. (716) 773-1921 Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

E. Illinois Transporter's ID

F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address

Trade Waste Incineration
7 Mobile Avenue
Sauget, Il 62201

10. US EPA ID Number: ILD098642424

G. Illinois Facility's ID: 1631210001

H. Facility's Phone: (618) 271-2804

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	4. Waste No.
a. RQ Hazardous Waste Solid, N.O.S. [contains Bis (2-ethyl hexyl) phthalate] ORM-E NA9188	001	DT	00018	YD	EPA HW Number: XX U028 — Authorization Number
b.					EPA HW Number: XX — Authorization Number
c.					EPA HW Number: XX — Authorization Number
d.					EPA HW Number: XX — Authorization Number

J. Additional Description for Materials Listed Above

Trailer # D-146 — WO #

Trailer Plate # 86403D — Waste Porfile # AC7360

K. Handling Codes for Wastes Listed Above in Item #14

1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information

24 Hour Emergency response Number (800) 628-6091 Tuck Fisher

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: Arthur DURANT — Signature: Arthur Durant — Date (Month Day Year): 11 15 91

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: EARL ABBOTT — Signature: Earl Abbott — Date (Month Day Year): 11 15 91

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Date (Month Day Year)

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name — Signature — Date (Month Day Year)

This Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111½ Section 21, that this information be submitted to the Agency. Failure to provide the information may result in a civil penalty against the owner or operator of not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR

Please or at 8 pm call the Illinois Office of Emergency Response at 217/782-3637 and the National Response Center at 800/424-8802 or 202/426-2675.

215

STATE OF ILLINOIS

ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

P O BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

State Form LPC 62 8/81 IL532-0610

21.83 TNS

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter) EPA Form 8700-22 (Rev. 9-88) Form Approved OMB No 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: NJD002568715 — Manifest: 00120

2. Page 1 of 1

Information in the shaded areas is not required by Federal law but is required by Illinois law

3. Generator's Name and Mailing Address — Location If Different:
Essex Specialty Products
1 Crossman Road South, Sayreville, New Jersey 08872

4. Generator's Phone (201) 727-2100

A. Illinois Manifest Document Number: IL 3581905 — FEE PAID IF APPLICABLE

B. Illinois Generator's ID: 9340237548

5. Transporter 1 Company Name: Buffalo Fuel Corporation

6. US EPA ID Number: NYD051809952

C. Illinois Transporter's ID: 1429

D. (716) 773-1921 Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

E. Illinois Transporter's ID

F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address:
Trade Waste Incineration
7 Mobile Avenue
Sauget, Il 62201

10. US EPA ID Number: ILD098642424

G. Illinois Facility's ID: 1631210001

H. Facility's Phone: (618) 271-2804

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ Hazardous Waste Solid, N.O.S. [contains Bis (2-ethyl hexyl) phthalate] ORM-E NA9188	001	DT	00018	YD	EPA HW Number: XX U028 — Authorization Number
b.					EPA HW Number: XX — Authorization Number
c.					EPA HW Number: XX — Authorization Number
d.					EPA HW Number: XX — Authorization Number

J. Additional Description for Materials Listed Above
Trailer # D-144 WO# N/A
Trailer Plate # 86248D Waste Profile # AC7360

K. Handling Codes for Wastes Listed Above in Item #14
1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 628-6091 Tuck Fisher

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: Arthur DURANT — Signature: Arthur Durant — Date (Month Day Year): 11 15 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: FRANK DOJKA — Signature: Frank Dojka — Date (Month Day Year): 11 15 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date (Month Day Year)

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name — Signature — Date (Month Day Year)

GENERATOR — TRANSPORTER — FACILITY

This Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111½ Section 21, that this information be submitted to the Agency. Failure to provide this information may result in a civil penalty against the owner or operator of not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR

In case of a spill call the Illinois Office of Emergency Response at 217 / 782-3637 and the National Response Center at 800 / 424-8802 or 202 / 426-2675.

216

STATE OF ILLINOIS

ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

State Form LPC 62 8/81 IL532-0810

21.28TNS

PLEASE TYPE (Form designed for use on elite (12 pitch) typewriter) EPA Form 8700-22 (Rev. 9-88) Form Approved OMB No. 2060-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: NJD002568715 — Manifest Document No: 00119

2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address — Location if Different:
Essex Specialty Products
1 Crossman Road South, Sayreville, New Jersey, 08872

4. Generator's Phone (201) 727-2100

A. Illinois Manifest Document Number: IL 3581902 FEE PAID IF APPLICABLE

B. Illinois Generator's ID: 9340237548

5. Transporter 1 Company Name: Buffalo Fuel Corporation

6. US EPA ID Number: NYD051809952

C. Illinois Transporter's ID: 1429

D. (716) 773-1921 Transporter's Phone

7. Transporter 2 Company Name:

8. US EPA ID Number:

E. Illinois Transporter's ID:

F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address:
Trade Waste Incineration
7 Mobile Avenue
SAuget, Il 62201

10. US EPA ID Number: ILD098642424

G. Illinois Facility's ID: 1631210001

H. Facility's Phone: (618) 271-2804

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ Hazardous Waste Solid, N.O.S. [contains Bis (2-ethyl hexyl) phthalate] ORM-E NA9188	001	DT	00018	YD	XX U028 (EPA HW Number / Authorization Number)
b.					XX (EPA HW Number / Authorization Number)
c.					XX (EPA HW Number / Authorization Number)
d.					XX (EPA HW Number / Authorization Number)

J. Additional Description for Materials Listed Above
Trailer # D-155 Wo # N/A
Trailer Plate # 80777V Waste Profile # AC7360

K. Handling Codes for Wastes Listed Above in Item #14
1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 628-6091 Tuck Fisher

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: ARTHUR DURANT — Signature: Arthur Durant — Date (Month Day Year): 11 15 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Robert R Casey — Signature: Robert R Casey — Date (Month Day Year): 11 15 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date (Month Day Year):

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: — Signature: — Date (Month Day Year):

GENERATOR / TRANSPORTER / FACILITY

This Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111½ Section 21, that this information be submitted to the Agency. Failure to provide the information may result in a civil penalty against the owner or operator of not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR

In case of a spill call the Illinois Office of Emergency Response at 217/782-3637 and the National Response Center at 800/424-8802 or 202/426-2675.

217

STATE OF ILLINOIS

ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

State Form LPC 62 8/91 IL532-0610

EPA Form 8700-22 (Rev. 9-88)

20.34 TNS

PLEASE TYPE

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. [illegible] Manifest Document No.

2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address: Essex Specialty Products, 1 Crossman Road South, Sayreville, New Jersey [illegible]

Location if Different

4. Generator's Phone (201) 727-2100

A. Illinois Manifest Document Number: IL 3581914 (If Paid If Applicable)

B. Illinois Generator's ID: [illegible]

5. Transporter 1 Company Name: [illegible] Inc.

6. US EPA ID Number: PA[illegible]

C. Illinois Transporter's ID: 2061

D. ([illegible]) [illegible] Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

E. Illinois Transporter's ID

F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address: [illegible] International, 7 [illegible], [illegible], Illinois [illegible]

10. US EPA ID Number: IL[illegible]

G. Illinois Facility's ID: 1631[illegible]

H. Facility's Phone: ([illegible]) [illegible]

GENERATOR

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. Hazardous Solid, N.O.S. (contains [illegible]) [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	X X [illegible]
b.					X X
c.					X X
d.					X X

J. Additional Description for Materials Listed Above: Trailer [illegible] Waste Profile [illegible]; Trailer [illegible] Waste Profile [illegible]

K. Handling Codes for Wastes Listed Above in Item #14: 1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information: 24 Hour Emergency Response Number (800) 424-9300 Trailer [illegible]

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: [illegible] Signature: [illegible] Date (Month Day Year): [illegible]

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: [illegible] Signature: [illegible] Date (Month Day Year): 11 19 91

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: Signature: Date (Month Day Year):

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name: Signature: Date (Month Day Year):

This Agency is authorized to require the information requested by Illinois Pollution Statutes, Chapter 111½ Section 21. Rule 811 requires the information be submitted to the Agency. Failure to provide the information may result in a civil penalty against the owner or operator of not to exceed $5,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 5. GENERATOR MAIL TO IEPA

DAILY JOB REPORT

DIRECT ENVIRONMENTAL INC.

6-8 Otis Street
West Babylon, N.Y. 11704
516/253-0900
FAX: 516/253-0105

290 Sanford Street
East Orange, N.J. 07018
201/677-1800
FAX: 201/675-5919

COMPANY Essex Spec Prod's

LOCATION Sayreville, NJ

DATE Nov 1, 1991

START 0900 FINISH 1400

WEATHER CONDITIONS Cloudy 60° TOTAL TIME _____ HRS.

Description of Work Performed

Loaded 13 drums on to Freehold carting trailer bound for Ensco, Arkansas - one drum added to inventory to be dumped on pile. Now 7 drums to pile

MANPOWER

TITLE	NAME	HOURS	TITLE	NAME	HOURS
1 T Fisher	PM		6		
2 D Spielman	FT		7		
3			8		
4			9		
5			10		

MATERIALS/SUPPLIES

Quantity	Description	Quantity	Description
1		6	
2		7	
3		8	
4		9	
5		10	

EQUIPMENT/SAMPLES

Vehicle Truck

1 Hand Tools		6	
2		7	
3		8	
4		9	
5		10	

DISPOSAL/TRANSPORTATION/BACKFILL

1 FCI Onsite
2 11:00 Off Site 12:00
3
4
5

Manifest #525312

Additional Comments:

Load # 67629

Profile # 188882

Authorized Signature Richard Mailhat

Rich Mailhat - Inc.

P O BOX 19276 SPRINGFIELD ILLINOIS 62794-9276 (217) 782-6761

State Form LPC 62 8/81 IL532-0610

22.05 TNS

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter) EPA Form 8700-22 (Rev. 9-88) Form Approved OMB No 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NJD002568715 Manifest Document No. 00125

2. Page 1 of 1

Information in the shaded areas is not required by Federal law but is required by Illinois law

3. Generator's Name and Mailing Address — Location If Different

Essex Specialty Products
1 Crossman Road South, Sayreville, New Jersey 08872

4. Generator's Phone (201) 727-2100

A. Illinois Manifest Document Number: IL 3581913 FEE PAID IF APPLICABLE

B. Illinois Generator's ID: 9 3 4 0 2 3 7 5 4 8

5. Transporter 1 Company Name: Buffaol Fuel Corporation

6. US EPA ID Number: NYD051809952

C. Illinois Transporter's ID: 1 4 2 9

D. (716) 773-1921 Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

E. Illinois Transporter's ID

F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address
Trade Waste Incineration
7 Mobile Avenue
Sauget, Il 62201

10. US EPA ID Number: ILD098642424

G. Illinois Facility's ID: 1 6 3 1 2 1 0 0 0 1

H. Facility's Phone: (618) 271-2804

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a. RQ Hazardous Waste Solid, N.O.S. [contains Bis (2-ethyl hexyl) phthalate] ORM-E NA9188	001	DT	0.0018	YD	EPA HW Number: XX U028 Authorization Number
b.					EPA HW Number: XX Authorization Number
c.					EPA HW Number: XX Authorization Number
d.					EPA HW Number: XX Authorization Number

J. Additional Description for Materials Listed Above
Trailer # D-157 WO # N/A
Trailer Plate # 43704T Waste Profile # AC7360

K. Handling Codes for Wastes Listed Above in Item #14
1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information

24 Hour Emergency Response Number (800) 628-6091 Tuck Fisher

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.

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Printed/Typed Name: RAYMOND YERGEAU Signature: Raymond Yergeau Date: Month Day Year 11 18 91

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: JOSEPH I MEYERS Signature: Joseph I Meyers Date: Month Day Year 11 18 91

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name Signature Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name Signature Date: Month Day Year

GENERATOR / TRANSPORTER / FACILITY

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COPY 1. TSD MAIL TO GENERATOR

Office of Emergency Response at 217/782-3637 and the National Response Center at 800/424-8802 or 202/426-2675.

220

STATE OF ILLINOIS

P O BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

State Form LPC 62 8/81 IL532-0610

EPA Form 8700-22 (Rev 9-88)

21.74 TNS

PLEASE TYPE (Form designed for use on elite (12 pitch) typewriter.)

Form Approved OMB No 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: NJD002568715 Manifest Document No: 02724

2. Page 1 of 1

Information in the shaded areas is not required by Federal law but is required by Illinois law

3. Generator's Name and Mailing Address / Location If Different:
Essex Specialty Products
1 Crossman Road South, Sayreville, New Jersey, 08872

4. Generator's Phone ( )

A. Illinois Manifest Document Number: IL 3581911 FEE PAID IF APPLICABLE

B. Illinois Generator's ID: 9 3 4 0 2 3 7 5 4

5. Transporter 1 Company Name: Buffalo Fuel Corporation

6. US EPA ID Number: NYD051809952

C. Illinois Transporter's ID: 1 4 2 9

D. (716) 773-1921 Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

E. Illinois Transporter's ID

F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address:
Trade Waste Incineration
7 Mobile Avenue
Sauget, Il 62201

10. US EPA ID Number: ILD098642424

G. Illinois Facility's ID: 1 6 2 1 2 1 0 0 0 1

H. Facility's Phone: (618) 271-2804

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ Hazardous Waste Solid, N.O.S. [contains Bis (2-ethyl hexyl) phthalate] ORM-E NA 9188	001	DT	00018	YD	EPA HW Number: X X U 0 2 8; Authorization Number
b.					EPA HW Number: X X; Authorization Number
c.					EPA HW Number: X X; Authorization Number
d.					EPA HW Number: X X; Authorization Number

J. Additional Description for Materials Listed Above
Trailer # D143 WO # N/A
Trailer Plate # 859050 Waste Profile # AC7360

K. Handling Codes for Wastes Listed Above in Item #14
1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information

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: RAYMOND YEAGER Signature: Raymond Yeager Date: Month Day Year 1 1 89 1

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Henry E. Kirk Signature: Henry E. Kirk Date: Month Day Year 1 1 89 1

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name Signature Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name Signature Date: Month Day Year

GENERATOR TRANSPORTER FACILITY

In case of a spill call the Illinois Office of Emergency Response at 217/782-3637 and the National Response Center at 800/424-8802 or 202/426-2675.

This Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111½ Section 21, that this information be submitted to the Agency. Failure to provide the information may result in a civil penalty against the owner or operator of not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR

221

P O BOX 19276 SPRINGFIELD ILLINOIS 62794-9276 (217) 782-6761

State Form LPC 62 8/81 IL532-0610

EPA Form 8700-22 (Rev. 9-88)

Form Approved OMB No 2050-0039 Expires 9-30-91

21.74 TNS

PLEASE TYPE (Form designed for use on elite (12 pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NJD002568715 Manifest Document No. 00724

2. Page 1 of 1

Information in the shaded areas is not required by Federal law but is required by Illinois law

3. Generator's Name and Mailing Address / Location if Different

Essex Specialty Products
1 Crossman Road South, Sayreville, New Jersey, 08872

4. Generator's Phone ( )

A. Illinois Manifest Document Number: IL 3581911 FEE PAID IF APPLICABLE

B. Illinois Generator's ID: 9 3 4 0 2 3 7 5 4

5. Transporter 1 Company Name: Buffalo Fuel Corporation

6. US EPA ID Number: NYD051809952

C. Illinois Transporter's ID: 1 1 4 2 9

7. Transporter 2 Company Name

8. US EPA ID Number

D. (716) 773-1921 Transporter's Phone

E. Illinois Transporter's ID

F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address
Trade Waste Incineration
7 Mobile Avenue
Sauget, Il 62201

10. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

ILD098642424

G. Illinois Facility's ID: 3 1 6 2 1 2 1 0 0 0 1

H. Facility's Phone: (618) 271-2804

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No. / EPA HW Number / Authorization Number
a. RQ Hazardous Waste Solid, N.O.S. [contains Bis (2-ethyl hexyl) phthalate] ORM-E NA 9188	0 0 1	D T	0 0 0 1 8	YD	X X U 0 2 8
b.					X X
c.					X X
d.					X X

J. Additional Description for Materials Listed Above
Trailer # D143 WO # N/A
Trailer Plate # 859050 Waste Profile # AC7360

K. Handling Codes for Wastes Listed Above in Item 14
1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information

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: RAYMOND YEGEN Signature: Raymond Yegen Date: Month Day Year 1 1 1 8 9 1

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Henry E. Kirk Signature: Henry E. Kirk Date: Month Day Year 1 1 1 8 9 1

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name Signature Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name Signature Date: Month Day Year

GENERATOR

In case of a spill call the Illinois Office of Emergency Response at 217 / 782-3637 and the National Response Center at 800 / 424-8802 or 202 / 426-2675.

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COPY 1. TSD MAIL TO GENERATOR

222

STATE OF ILLINOIS

ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

State Form LPC 62 8/81 IL532-0610

EPA Form 8700-22 (Rev. 9-88) Form Approved OMB No. 2050-0039 Expires 9-30-91

22.94 TNS

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NJD002568715 Manifest Document No.: 00723

2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is required by Illinois law

3. Generator's Name and Mailing Address: Essex Specialty Products, 1 Crossman Road South, Sayreville, New Jersey 08872

Location if Different

4. Generator's Phone: (201) 727-2100

A. Illinois Manifest Document Number: IL 3581908 FEE PAID IF APPLICABLE

B. Illinois Generator's ID: 9340237548

5. Transporter 1 Company Name: Buffalo Fuel Corporation

6. US EPA ID Number: NYD051809952

C. Illinois Transporter's ID: 11429

D. (716) 773-1921 Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

E. Illinois Transporter's ID

F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address: Trade Waste Incineration, 7 Mobile Avenue, Sauget, Il 62201

10. US EPA ID Number: ILD098642424

G. Illinois Facility's ID: 1963120001

H. Facility's Phone: (618) 271-2804

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a. RQ Hazardous Waste Solid, N.O.S. [contains Bis (2-ethyl hexyl) phthalate] ORM-E NA9188	001	DT	00018	YD	EPA HW Number XXU028 / Authorization Number
b.					EPA HW Number XX / Authorization Number
c.					EPA HW Number XX / Authorization Number
d.					EPA HW Number XX / Authorization Number

J. Additional Description for Materials Listed Above

Trailer # D-154 WO # N/A

Trailer Plate # 80748V Waste Profile # AC7360

K. Handling Codes for Wastes Listed Above in Item #14

1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information

24 Hour Emergency Response Number (800) 628-6091 Tuck Fisher

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of the 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.

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Printed/Typed Name: RAYMOND YERGEAU Signature: Raymond Yergeau Date: Month Day Year 11 18 91

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Chris Howard Signature: Chris Howard Date: Month Day Year 11 18 91

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name Signature Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name Signature Date: Month Day Year

This Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111½ Section 21, that this information be submitted to the Agency. Failure to provide the information may result in a civil penalty against the owner or operator of not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR

223

P O BOX 19276 SPRINGFIELD ILLINOIS 62794-9276 (217) 782-6761

22.57 TNS

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter) State Form LPC 62 8/91 IL532-0610 EPA Form 8700-22 (Rev. 9-88) Form Approved OMB No 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NJD002568715 Manifest Document No. 00722

2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is required by Illinois law

3. Generator's Name and Mailing Address
Essex Specialty Products
1 Crossman Road South, Sayreville, New Jersey 08872
Location If Different.

4. Generator's Phone (201) ~~727-22100~~ 727-2100

5. Transporter 1 Company Name: Buffalo Fuel Corporation
6. US EPA ID Number: NYD051809952

7. Transporter 2 Company Name
8. US EPA ID Number

9. Designated Facility Name and Site Address
Trade Waste Incineration
7 Mobile Avenue
Sauget, Il 62201
10. US EPA ID Number: ILD098642424

A. Illinois Manifest Document Number: IL 3581910 FEE PAID IF APPLICABLE
B. Illinois Generator's ID: 9340237548
C. Illinois Transporter's ID: 1429
D. (716) 773-1921 Transporter's Phone
E. Illinois Transporter's ID
F. ( ) Transporter's Phone
G. Illinois Facility's ID: 1631210001
H. Facility's Phone: (618) 271-2804

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a. RQ Hazardous Waste Solid, N.O.S. [contains Bis (2-ethyl hexyl) phthalate] ORM-E NA9188	001	DT	00018	YD	EPA HW Number XX U028 Authorization Number
b.					EPA HW Number XX Authorization Number
c.					EPA HW Number XX Authorization Number
d.					EPA HW Number XX Authorization Number

J. Additional Description for Materials Listed Above
Trailer # D-156 WO # N/A
Trailer Plate # 43632T Waste Profile # AC7360

K. Handling Codes for Wastes Listed Above in Item #14
1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 628-6091 Tuck Fisher

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: Arthur Durant Signature: Arthur Durant Date: Month Day Year 11 1 59

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Robert T. Morrison Signature: Robert T. Morrison Date: Month Day Year 11 1 59

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name Signature Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name Signature Date: Month Day Year

This Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111½ Section 21, that this information be submitted to the Agency. Failure to provide the information may result in a civil penalty against the owner or operator of not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR

Illinois Office of Emergency Response at 217 / 782-3637 and the National Response Center at 800 / 424-8802 or 202 / 426-2675.

224

STATE OF ILLINOIS

ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

P.O. BOX 19276 SPRINGFIELD ILLINOIS 62794-9276 (217) 782-6761

State Form LPC 62 8/91 IL532-0610

EPA Form 8700-22 (Rev. 9-88)

Form Approved OMB No. 2050-0039 Expires 9-30-91

WCC

22.99 TNS

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NJD002568715 — Manifest Document No.: 00139

2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address: Essex Specialty Products, 1 Crossman Road South, Sayreville, New Jersey 08872

Location If Different:

4. Generator's Phone (908) 727-2100

A. Illinois Manifest Document Number: IL 3633812 FEE PAID IF APPLICABLE

B. Illinois Generator's ID: 9340237548

5. Transporter 1 Company Name: Horwith Trucks Inc.

6. US EPA ID Number: PAD064035819

C. Illinois Transporter's ID: SWH 2061

7. Transporter 2 Company Name:

8. US EPA ID Number:

D. (800) 456-8807 Transporter's Phone

E. Illinois Transporter's ID:

F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address: Trade Waste Incineration, 7 Mobile Avenue, Sauget, IL 62201

10. US EPA ID Number: ILD098642424

G. Illinois Facility's ID: 1631 2 1 0009

H. Facility's Phone: (618) 271-2804

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ Hazardous Solid, N.O.S. [contains Bis (2-ethyl hexyl) phthalate]ORM-E NA9188	001	DT	00018	CY	EPA HW Number: XX U028; Authorization Number: 090001
b.					EPA HW Number: XX; Authorization Number:
c.					EPA HW Number: XX; Authorization Number:
d.					EPA HW Number: XX; Authorization Number:

J. Additional Description for Materials Listed Above

Trailer Plate Number TV21343 7 Work Order Number 92020702

Trailer Number 112 Waste Profile # AC7360

K. Handling Codes for Wastes Listed Above in Item #14

1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information

24 Hour Emergency Response Number (800) 628-6091 Tuck Fisher

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.

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Printed/Typed Name: RAYMOND YERGEAU — Signature: [signature] — Date: Month Day Year 020592

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Ronald L. Fritz — Signature: Ronald L. Fritz — Date: Month Day Year 020592

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: — Signature: — Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name: — Signature: — Date: Month Day Year

This Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111½, Section 21, that this information be submitted to the Agency. Failure to provide the information may result in a civil penalty against the owner or operator of not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR

In case of a spill call the Illinois Office of Emergency Response at 217/782-3637 and the National Response Center at 800/424-8802 or 202/426-2675.

225

STATE OF ILLINOIS

ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

P O BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

State Form LPC 62 8/91 IL532-0610

EPA Form 8700-22 (Rev. 9-88)

Form Approved OMB No. 2050-0039 Expires 9-30-91

23.36 TNS

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NJD002568715 — Manifest Document No.: 00190

2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address: Essex Specialty Products, 1 Crossman Road South, Sayreville, New Jersey 08872 — Location If Different:

4. Generator's Phone (908) 727-2100

A. Illinois Manifest Document Number: IL 3633813 FEE PAID IF APPLICABLE

B. Illinois Generator's ID: 9340237548

5. Transporter 1 Company Name: Horwith Trucks Inc.

6. US EPA ID Number: PAD064035819

C. Illinois Transporter's ID: SWH 2061

D. (800) 456-8807 Transporter's Phone

7. Transporter 2 Company Name:

8. US EPA ID Number:

E. Illinois Transporter's ID:

F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address: Trade Waste Incineration, 7 Mobile Avenue, Sauget, IL 62201

10. US EPA ID Number: ILD098642424

G. Illinois Facility's ID: 1631210009

H. Facility's Phone: (618) 271-2804

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ Hazardous Solid, N.O.S. [contains Bis (2-ethyl hexyl) phthalate] ORM-E NA9188	001	DT	00018	CY	EPA HW Number: XXU028; Authorization Number: 090001
b.					EPA HW Number: XX; Authorization Number:
c.					EPA HW Number: XX; Authorization Number:
d.					EPA HW Number: XX; Authorization Number:

J. Additional Description for Materials Listed Above: Trailer Plate Number TY2R018 Work Order Number 92020804; Trailer Number 196; Waste Profile Number AC7360

K. Handling Codes for Wastes Listed Above In Item #14: 1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information: 24 Hour Emergency Response Number (800) 628-6091 Tuck Fisher

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.

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Printed/Typed Name: RAYMOND YERGEAU — Signature: Raymond Yergeau — Date: Month Day Year: 020592

17. Transporter 1 Acknowledgement of Receipt of Materials — Printed/Typed Name: KEITH FRITZ — Signature: Keith Fritz — Date: Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials — Printed/Typed Name: — Signature: — Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator. Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. — Printed/Typed Name: — Signature: — Date: Month Day Year

This Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111½ Section 21, that this information be submitted to the Agency. Failure to provide the information may result in a civil penalty against the owner or operator of not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR

226

STATE OF ILLINOIS

ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

P.O. BOX 19276 SPRINGFIELD ILLINOIS 62794-9276 (217) 782-6761

State Form LPC 62 8/81 IL532-0610

EPA Form 8700-22 (Rev. 9-88)

22.13 TNS

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter)

Form Approved OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: NJD002568715 Manifest Document No: 00141

2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address: Essex Specialty Products, 1 Crossman Road South, Sayreville, New Jersey 08872

Location If Different:

A. Illinois Manifest Document Number: IL 3633814 FEE PAID IF APPLICABLE

4. Generator's Phone (908) 727-2100

B. Illinois Generator's ID: 9340237548

5. Transporter 1 Company Name: Horwith Trucks Inc.

6. US EPA ID Number: PAD064035819

C. Illinois Transporter's ID: SWH 2061

7. Transporter 2 Company Name:

8. US EPA ID Number:

D. (800) 456-8807 Transporter's Phone

E. Illinois Transporter's ID:

F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address: Trade Waste Incineration, 7 Mobile Avenue, Sauget, IL 62201

10. US EPA ID Number: ILD098642424

G. Illinois Facility's ID: 1631210009

H. Facility's Phone: (618) 271-2804

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ Hazardous Solid, N.O.S. [contains Bis (2-ethyl hexyl) phthalate] ORM-E NA9188	001	DT	00018	CY	EPA HW Number: XXU028; Authorization Number: 090001
b.					EPA HW Number: XX; Authorization Number:
c.					EPA HW Number: XX; Authorization Number:
d.					EPA HW Number: XX; Authorization Number:

J. Additional Description for Materials Listed Above

Trailer # 117 WO# 92021001

Trailer Plate # TY21978 Waste Profile # AC7360

K. Handling Codes for Wastes Listed Above in Item #14

1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information

24 Hour Emergency Response Number (800) 628-6091 Tuck Fisher

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Printed/Typed Name: RAYMOND YEGEAU Signature: Raymond Yegeau Date: Month Day Year 020592

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: DAVID B. BRYFOGLE Signature: David B. Bryfogle Date: Month Day Year 020592

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: Signature: Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name: Signature: Date: Month Day Year

This Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111½, Section 21, that this information be submitted to the Agency. Failure to provide this information may result in a civil penalty against the owner or operator of not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1 TSD MAIL TO GENERATOR

GENERATOR

TRANSPORTER

FACILITY

Office of Emergency Response at 217/782-3637 and the National Response Center at 800/424-8802 or 202/426-2675.

227

STATE OF ILLINOIS

ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

P O BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

State Form LPC 62 8/91 IL532-0610

23.01 TNS

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter) EPA Form 8700-22 (Rev. 9-88) Form Approved OMB No 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: NJD002568715 — Manifest Document No: 00142 — 2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is required by Illinois law

3. Generator's Name and Mailing Address — Location If Different
Essex Specialty Products
1 Crossman Road South, Sayreville, New Jersey 08872

4. Generator's Phone (908) 727-2100

A. Illinois Manifest Document Number: IL 3633825 FEE PAID IF APPLICABLE

B. Illinois Generator's ID: 9340237548

5. Transporter 1 Company Name: Horwith Trucks Inc.

6. US EPA ID Number: PAD064035819

C. Illinois Transporter's ID: SWH 2061

D. (800) 456-8807 Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

E. Illinois Transporter's ID

F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address
Trade Waste Incineration
7 Mobile Avenue
Sauget, IL 62201

10. US EPA ID Number: ILD098642424

G. Illinois Facility's ID: 1631210009

H. Facility's Phone: (618) 271-2804

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ Hazardous-Was Solid, N.O.S. [contains Bis (2-ethyl hexyl) phthalate] ORM-E NA9188	001	DT	00018	CY	EPA HW Number: XX 1028; Authorization Number: 090001
b.					EPA HW Number: XX; Authorization Number:
c.					EPA HW Number: XX; Authorization Number:
d.					EPA HW Number: XX; Authorization Number:

J. Additional Description for Materials Listed Above
Trailer # 190 WO# 92021002
Trailer Plate # TN74994 Waste Profile # AC7360

K. Handling Codes for Wastes Listed Above In Item #14
1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 628-6091 Tuck Fisher

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: RAYMOND YBARGAS — Signature: [signature] — Date (Month Day Year): 020592

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: GEORGE SZACSKA — Signature: George Szacska — Date (Month Day Year): 020592

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date (Month Day Year)

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name — Signature — Date (Month Day Year)

*This Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111½ Section 21, that this information be submitted to the Agency. Failure to provide the information may result in a civil penalty against the owner or operator of not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR

In case of a spill call the Illinois Office of Emergency Response at 217/782-3637 and the National Response Center at 800/424-8802 or 202/426-2675.

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STATE OF ILLINOIS

ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

22.25 TNS

State Form LPC 62 8/81 IL532-0810

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter.) EPA Form 8700-22 (Rev. 9-88) Form Approved OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. N J D 0 0 2 5 6 8 7 1 5 Manifest Document No. 00743

2. Page 1 of 1 — Information in the shaded areas is not required by Federal law but is required by Illinois law

3. Generator's Name and Mailing Address — Location if Different.
Essex Specialty Products
1 Crossman Road South, Sayreville, New Jersey 08872

4. Generator's Phone (201 908) 727-2100

A. Illinois Manifest Document Number IL 3633826 FEE PAID IF APPLICABLE

B. Illinois Generator's ID 9 3 4 0 2 3 7 5 4 8

5. Transporter 1 Company Name: Horvith Trucks Inc.

6. US EPA ID Number: P A D 0 6 4 0 3 5 8 1 9

C. Illinois Transporter's ID: S H 2 0 6 1

D. (800) 456-8807 Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

E. Illinois Transporter's ID

F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address
Trade Waste Incineration
7 Mobile Avenue
Sauget, Il. 62201

10. US EPA ID Number: I L D 0 9 8 6 4 2 4 2 4

G. Illinois Facility's ID 1 6 3 1 2 1 0 0 0 1 9

H. Facility's Phone (618) 2712804

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ Hazardous Waste Solid, N.O.S. [contains Bis (2-ethyl hexyl) phthalate] ORM-E NA9188	0 0 1	D T	0 0 0 1 8	C Y	EPA HW Number X X U 0 2 8 / Authorization Number 0 9 0 0 0 1
b.					EPA HW Number X X / Authorization Number
c.					EPA HW Number X X / Authorization Number
d.					EPA HW Number X X / Authorization Number

J. Additional Description for Materials Listed Above
Trailer # 195 Bo # 92021101
Trailer Plate # T 14548 Waste Profile # AC7360

K. Handling Codes for Wastes Listed Above in Item #14
1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 628-6091 Tuck Fisher

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.

GENERATOR — Printed/Typed Name: Raymond Yerdon — Signature: [signature] — Date: Month Day Year 02 05 92

TRANSPORTER — 17. Transporter 1 Acknowledgement of Receipt of Materials — Printed/Typed Name: Bill Cassium — Signature: [signature] — Date: Month Day Year 02 05 92

18. Transporter 2 Acknowledgement of Receipt of Materials — Printed/Typed Name — Signature — Date: Month Day Year

FACILITY — 19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. — Printed/Typed Name — Signature — Date: Month Day Year

In case of a spill call the Illinois Office of Emergency Response at (217) 782-7860 and the National Response Center at (800) 424-8802 or (202) 426-2675.

This Agency is authorized to require this information under Illinois Revised Statutes, Chapter 111½, Section 21. Rule 1 of the Illinois Pollution Control Board Rules and Regulations. Failure to provide this information may result in a fine up to $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR

229

STATE OF ILLINOIS

ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

P O BOX 19276 SPRINGFIELD, ILLINOIS 62794 9276 (217) 782-6761

State Form LPC 62 8/81 IL532-0610

EPA Form 8700-22 (Rev. 9-88)

2197 TNS

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter)

Form Approved OMB No 2050-0039 Expires 5 30 91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NJD002568715 Manifest Document No. 00744

2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is required by Illinois law

3. Generator's Name and Mailing Address — Location if Different

Essex Specialty Products
1 Crossman Road South, Sayreville, New Jersey 08872

4. Generator's Phone (201 908) 727-2100

A. Illinois Manifest Document Number IL 3633829 FEE PAID IF APPLICABLE

B. Illinois Generator's ID 9 3 4 0 2 3 7 5 4 8

5. Transporter 1 Company Name: Horwith Trucks Inc.

6. US EPA ID Number: PAD064035819

C. Illinois Transporter's ID SWH 2 0 6 1

D. (800) 456-8807 Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

E. Illinois Transporter's ID

F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address

Trade Waste Incineration
7 Mobile Avenue
Sauget, IL 62201

10. US EPA ID Number: ILD098642424

G. Illinois Facility's ID 1 6 3 1 2 1 0 0 0 1 9

H. Facility's Phone (618) 271-2804

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ Hazardous ~~Waste~~ Solid, N.O.S. [contains Bis (2-ethyl hexyl) phthalate] ORM-E NA9188	0 0 1	DT	0001 8	CY	EPA HW Number XX U 0 2 8; Authorization Number 0 9 0 0 0 1
b.					EPA HW Number XX; Authorization Number
c.					EPA HW Number XX; Authorization Number
d.					EPA HW Number XX; Authorization Number

J. Additional Description for Materials Listed Above

Trailer # 763 WO# 92021102

Trailer Plate # TW 14607 Waste Profile # AC7360

K. Handling Codes for Wastes Listed Above in Item #14

1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information

24 Hour Emergency Response Number (800) 628-6091 Tuck Fisher

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: RAYMOND YERGEAU — Signature: Raymond Yergeau — Date: Month Day Year 0 2 0 5 9 2

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: FRANCIS E ROTH — Signature: Francis E. Roth — Date: Month Day Year 0 2 0 5 9 2

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name — Signature — Date: Month Day Year

GENERATOR

TRANSPORTER

FACILITY

In case of a spill call the Illinois Office of Emergency Response at 217 / 782-3637 and the National Response Center at 800 / 424-8802 or 202 / 426-2675.

This Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111½, Section 21, that this information be submitted to the Agency. Failure to provide the [illegible] the owner or operator of not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR

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Department of Pollution Control and Ecology
P. O. Box 8913 Little Rock, Arkansas 72219-8913
Telephone 501-562-7444

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved OMB No 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: N J D 0 0 2 5 6 8 7 1 5 — Manifest Document No: 0 0 7 1 6
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address: Essex Specialty Products, 1135 Broad Street, Clifton, New Jersey 07015
4. Generator's Phone: 201 773-1569
SHIPPED FROM 1 CROSSMAN RD SAYREVILLE NJ 08872

A. State Manifest Document Number: AR- 525312
B. State Generator's ID: SAME

5. Transporter 1 Company Name: Freehold Cartage Inc.
6. US EPA ID Number: N J D 0 5 4 1 2 6 1 6 4
C. State Transporter's ID: PC 0944 0257
D. Transporter's Phone: 908 462-1001

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. State Transporter's ID: PC ... H ...
F. Transporter's Phone:

9. Designated Facility Name and Site Address: ENSCO Inc., American Oil Road, El ~~Dieado~~ Dorado, Arkansas 71730
10. US EPA ID Number: A R D 0 6 9 7 4 8 1 9 2
G. State Facility's ID: SAME
H. Facility's Phone: 501 863-7173

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. Hazardous Waste Liquid N.O.S. ORM-E NA9189 (contains Bis-2 ethylhexyl phthalate	013 ~~014~~	D M	8715 ~~770~~ 00	G	F003 F005
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above: ALSO CONTAINS TOLUENE, XYLENE < 2%

If no alternate TSDF, return to generator

K. Handling Codes for Wastes Listed Above
EMERGENCY RESPONSE INFORMATION:
Direct Environmental, Inc.
(201) 677-1800 Tuck Fisher

15. Special Handling Instructions and Additional Information
Load # 67629 TRAILER # 117
Profile # 188882

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 and Arkansas state regulations.
If I am a large quantity generator, I certify that I have a program in place to reduce the volumn 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: ~~BOB SOMMERS~~ ART DURANT — Signature: Arthur Durant — Month Day Year: 11 19 91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: BOB SOMMERS — Signature: Bob Sommers — Month Day Year: 11 01 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Month Day Year:

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: — Signature: — Month Day Year:

EPA Form 8700-22 (Rev. 9-88) Previous edition is obsolete.

NOTICE: THE ORIGINAL AND NOT LESS THAN TWO (2) COPIES MUST MOVE WITH THE HAZARDOUS WASTE SHIPMENT. ONCE DELIVERED, THE TREATMENT/STORAGE/DISPOSAL FACILITY MUST RETURN THIS ORIGINAL COPY TO THE GENERATOR.

STATE OF ILLINOIS

ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter.)

State Form LPC 62 8/81 IL532-0610

EPA Form 8700-22 (Rev. 9-88)

Form Approved OMB No 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NJD002568715 — Manifest Document No. 100148

2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is required by Illinois law

3. Generator's Name and Mailing Address — Location if Different

Essex Specialty Products
1 Crossman Road South, Sayreville, New Jersey 08872

4. Generator's Phone (908) 727-2100

A. Illinois Manifest Document Number: IL 3633820 — FEE PAID IF APPLICABLE

B. Illinois Generator's ID: 9 3 4 0 2 3 7 5 4 8

5. Transporter 1 Company Name: Horwith Trucks Inc.

6. US EPA ID Number: PAD064035819

C. Illinois Transporter's ID: 2 0 6 1

D. (800) 456-8807 Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

E. Illinois Transporter's ID

F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address
Trade Waste Incineration
7 Mobille Avenue
Sauget, IL 62201

10. US EPA ID Number: ILD098642424

G. Illinois Facility's ID: 1 6 3 1 2 1 0 0 0 9

H. Facility's Phone: (618) 271-2804

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ Hazardous Solid, N.O.S. [contains Bis (2-ethyl hexyl) phthalate] ORM-E NA9188	001	DT	0,0,0,1,8	2/CY	EPA HW Number: XX U 0 2 8; Authorization Number: 0 9 0 0 1
b.					EPA HW Number: XX; Authorization Number:
c.					EPA HW Number: XX; Authorization Number:
d.					EPA HW Number: XX; Authorization Number:

J. Additional Description for Materials Listed Above
Trailer # 123 MDF 92032108
Trailer Plate # TS11974 Waste Profile # AC7360

K. Handling Codes for Wastes Listed Above in Item #14
1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800)628-6091 Tuck Fisher

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: ARTHUR DURANT — Signature: Arthur Durant — Date: Month Day Year 03 19 92

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: DONALD A REED — Signature: Donald A Reed — Date: Month Day Year 03 19 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name — Signature — Date: Month Day Year

This Agency is authorized to require, pursuant to Illinois Revised Statutes Chapter 111½ Section 21, that this information be submitted to the Agency. Failure to provide the information may result in a civil penalty against the owner or operator of not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR

STATE OF ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

State Form LPC 62 8/81 IL532-0810

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter) EPA Form 8700-22 (Rev. 9-88) Form Approved OMB No. 2050-0039 Expires 9-30-91

In case of a spill call the Illinois Office of Emergency Response at 217/782-0057 and the Illinois Emergency Response Center at 217/782-0057

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NJD002568715 — Manifest Document No.: 00147
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law, but is required by Illinois law

3. Generator's Name and Mailing Address — Location If Different:
Essex Specialty Products
1 Crossman Road South, Sayreville, New Jersey 08872

4. Generator's Phone (908) 727-2100

5. Transporter 1 Company Name: Horwith Trucks Inc.
6. US EPA ID Number: PAD064035819

7. Transporter 2 Company Name:
8. US EPA ID Number:

9. Designated Facility Name and Site Address:
Trade Waste Incineration
7 Mobile Avenue
Sauget, IL 62201
10. US EPA ID Number: ILD098642424

A. Illinois Manifest Document Number: 3633819 FEE PAID IF APPLICABLE
B. Illinois Generator's ID: 9 3 4 0 2 3 7 5 4 8
C. Illinois Transporter's ID: 2 0 6 1
D. (800) 456-8807 Transporter's Phone
E. Illinois Transporter's ID:
F. ( ) Transporter's Phone
G. Illinois Facility's ID: 1 6 3 1 2 1 0 0 0 9
H. Facility's Phone: (618) 271-2804

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a. RQ Hazardous Solid, N.O.S. [contains Bis (2-ethyl hexyl) phthalate] ORM-E NA9188	001	DT	00018	2/ CY	EPA HW Number: XX 0028; Authorization Number: 090001
b.					EPA HW Number: XX; Authorization Number:
c.					EPA HW Number: XX; Authorization Number:
d.					EPA HW Number: XX; Authorization Number:

J. Additional Description for Materials Listed Above
Trailer # 133 WO# 92032103
Trailer Plate # TW02749 Waste Profile # AC7360

K. Handling Codes for Wastes Listed Above in Item #14
1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 628-6091 Tuck Fisher

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: ARthur DURANT — Signature: Arthur Durant — Date (Month Day Year): 03 1992

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Michael Gornick — Signature: Michael G — Date (Month Day Year): 03 1992

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date (Month Day Year):

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: — Signature: — Date (Month Day Year):

This Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111½ Section 21, that this information be submitted to the Agency. Failure to provide the information may result in a civil penalty against the owner or operator of not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR

233

STATE OF ILLINOIS

ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL
ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

State Form LPC 62 8/81 IL532-0610

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter) EPA Form 8700-22 (Rev. 9-88) Form Approved OMB No. 2050-0039, Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NJD002568715 — Manifest Document No.: 00146 — Page 1 of 1 — Information in the shaded areas is not required by Federal law, but is required by Illinois law

3. Generator's Name and Mailing Address — Location if Different:
Essex Specialty Products
1 Crossman Road South, Sayreville, New Jersey 08872

4. Generator's Phone (908) 727-2100

A. Illinois Manifest Document Number: IL 3633818 — FEE PAID IF APPLICABLE

B. Illinois Generator's ID: 9340237548

5. Transporter 1 Company Name: Horwith Trucks Inc.

6. US EPA ID Number: PAD064035 [illegible]

C. Illinois Transporter's ID: 20611

D. (800) 456-8807 Transporter's Phone

7. Transporter 2 Company Name:

8. US EPA ID Number:

E. Illinois Transporter's ID:

F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address:
Trade Waste Incineration
7 Mobile Avenue
Sauget, Ill 62201

10. US EPA ID Number: ILD098642424

G. Illinois Facility's ID: 1631210009

H. Facility's Phone: (618) 271-2804

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
a. RQ Hazardous Solid, N.O.S. [contains Bis (2-ethyl hexyl) phthalate] ORM-E NA9188	001	DT	00018	2/CY	EPA HW Number: XX 1028; Authorization Number: 090001
b.					EPA HW Number: XX; Authorization Number:
c.					EPA HW Number: XX; Authorization Number:
d.					EPA HW Number: XX; Authorization Number:

J. Additional Description for Materials Listed Above:
Trailer # 185 WD# 92032102
Trailer Plate # TS31639 Waste Profile # AC7360

K. Handling Codes for Wastes Listed Above in Item #14:
1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information:
24 Hour Emergency Response Number (800) 628-6091 Tuck Fisher

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: ARTHUR DURANT — Signature: Arthur Durant — Date (Month Day Year): 031992

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Bill Cassium — Signature: Bill Cassium — Date (Month Day Year): 031992

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Date (Month Day Year):

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: — Signature: — Date (Month Day Year):

This Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111½ Section 21, that this information be submitted to the Agency. Failure to provide the information may result in a civil penalty against the owner or operator of not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR

In case of a spill call the Illinois Office of Emergency Response at 217 / 782-3637 and the National Response Center at 800 / 424-8802 or 202 / 426-2675.

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STATE OF ILLINOIS

ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL
ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL
P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

State Form LPC 62 8/81 IL532-0610
EPA Form 8700-22 (Rev. 9-88)

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter)

Form Approved OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NJD002568715
Manifest Document No.: 00146
2. Page 1 of 1
Information in the shaded areas is not required by Federal law, but is required by Illinois law

3. Generator's Name and Mailing Address: Essex Specialty Products, 1 Crossman Road South, Sayreville, New Jersey 08872
Location if Different:
4. Generator's Phone (908) 727-2100

A. Illinois Manifest Document Number: IL 3633818 FEE PAID IF APPLICABLE
B. Illinois Generator's ID: 9 3 4 0 2 3 7 5 4 8

5. Transporter 1 Company Name: Horwith Trucks Inc.
6. US EPA ID Number: PAD064035 19
C. Illinois Transporter's ID: 2 0 6 1
D. (800) 456-8807 Transporter's Phone

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. Illinois Transporter's ID:
F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address: Trade Waste Incineration, 7 Mobile Avenue, Sauget, Ill 62201
10. US EPA ID Number: ILD098642424
G. Illinois Facility's ID: 1 6 3 1 2 1 0 0 0 9
H. Facility's Phone: (618) 271-2804

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a. RQ Hazardous Solid, N.O.S. [contains Bis (2-ethyl hexyl) phthalate] ORM-E NA9188	001	DT	00018	2/CY	EPA HW Number: XX 0 2 8; Authorization Number: 0 9 0 0 0 1
b.					EPA HW Number: XX; Authorization Number:
c.					EPA HW Number: XX; Authorization Number:
d.					EPA HW Number: XX; Authorization Number:

J. Additional Description for Materials Listed Above
Trailer # 185 WO# 92032102
Trailer Plate # 7531639 Waste Profile # AC7360

K. Handling Codes for Wastes Listed Above in Item #14
1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 628-6091 Tuck Fisher

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: ARTHUR DURANT
Signature: Arthur Durant
Date: Month Day Year: 03 19 92

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Bill Crossium
Signature: Bill Crossium
Date: Month Day Year: 03 19 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year:

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name:
Signature:
Date: Month Day Year:

GENERATOR

TRANSPORTER

FACILITY

This Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111½ Section 21, that this information be submitted to the Agency. Failure to provide the information may result in a civil penalty against the owner or operator of not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 1. TSD MAIL TO GENERATOR

In case of a spill call the Illinois Office of Emergency Response at 217/782-3637 and the National Response Center at 800/424-8802 or 202/426-2675.

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STATE OF ILLINOIS

ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter.)

State Form LPC 62 8/81 IL532-0610

EPA Form 8700-22 (Rev. 9-88) Form Approved OMB No 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NJD002568715 Manifest Document No. 100145

2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address: Essex Specialty Products, 1 Crossman Road South, Sayreville, New Jersey 08872 — Location if Different:

4. Generator's Phone (908) 727-2100

5. Transporter 1 Company Name: Horvith Trucks Inc. — 6. US EPA ID Number: PAD064035819

7. Transporter 2 Company Name — 8. US EPA ID Number

9. Designated Facility Name and Site Address: Trade Waste Incineration, 7 Mobile Avenue, Sauget, IL 62201 — 10. US EPA ID Number: ILD098642424

A. Illinois Manifest Document Number: IL 3633817 FEE PAID IF APPLICABLE

B. Illinois Generator's ID: 9340237548

C. Illinois Transporter's ID: 2061

D. (800) 456-8807 Transporter's Phone

E. Illinois Transporter's ID

F. Transporter's Phone

G. Illinois Facility's ID: 1631210009

H. Facility's Phone: (618) 271-2804

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a. RQ Hazardous Solid, N.O.S. [contains Bis (2-ethyl hexyl) phthalate] ORM-E NA9188	001	DT	00018	2/CY	XX D028 / 0900 1
b.					XX
c.					XX
d.					XX

J. Additional Description for Materials Listed Above: Ell: Trailer # 174 MO# 92032100; Trailer Plate # 7595128; Waste Profile # AC7360

K. Handling Codes for Wastes Listed Above in Item #14: 1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information: 24 Hour Emergency Response Number (800) 628-5091 Tuck Fisher

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.

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Printed/Typed Name: ARTHUR DURANT — Signature: Arthur Durant — Date: Month Day Year 03 19 92

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Michael Lwocil — Signature: Michael Lwocil — Date: Month Day Year 03 19 92

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name — Signature — Date: Month Day Year

This Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111½ Section 21, that this information be submitted to the Agency. Failure to provide the information may result in a civil penalty against the owner or operator of not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

In case of a spill call the Illinois Office of Emergency Response at 217/782-3637 and the National Response Center at 800/424-8802 or 202/426-2675.

236

STATE OF ILLINOIS

ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

P O BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

State Form LPC 62 8/81 IL532-0610

21.44 TNS

PLEASE TYPE (Form designed for use on elite (12 pitch) typewriter.) EPA Form 8700-22 (Rev. 9-88) Form Approved OMB No. 2050-0039, Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NJD002568715 Manifest Document No. 000178

2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is required by Illinois law

3. Generator's Name and Mailing Address — Location if Different

Essex Specialty Product
1 Crossman Road South, , Sayreville, New Jersey 08872

4. Generator's Phone (201) 727-2100

A. Illinois Manifest Document Number: IL 3581906 FEE PAID IF APPLICABLE

B. Illinois Generator's ID: 9,3,4,0,2,3,7,5,8

5. Transporter 1 Company Name: Buffalo Fuel Corporation

6. US EPA ID Number: NYD051809952

C. Illinois Transporter's ID: 1,4,2,9

D. (716) 773-1921 Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

E. Illinois Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Trade Waste Incineration
7 Mobile Avenue
Sauget, Il 62201

10. US EPA ID Number: ILD098642424

G. Illinois Facility's ID: 1,6,3,2,1,0,0,1

H. Facility's Phone (618) 271-2804

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a. RQ Hazardous Waste Solid, N.O.S. [contains Bis (2-ethyl hexyl) phthalate] ORM-E NA9188	0 0 1	DT	00018	YD	X X 1 1 0 1 2 8
b.					X X
c.					X X
d.					X X

J. Additional Description for Materials Listed Above
Trailer # D-121 NOV N/A
Trailer Plate # 45119C Waste Profile # AC7360

K. Handling Codes for Wastes Listed Above in Item #14
1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 628-6091 Tuck Fisher

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.

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GENERATOR — Printed/Typed Name: ARTHUR DURANT — Signature: Arthur Durant — Date: Month Day Year 1 1 1 5 9 1

TRANSPORTER 1 — 17. Transporter 1 Acknowledgement of Receipt of Materials — Printed/Typed Name: STEVEN J. SARAF — Signature — Date: Month Day Year 1 1 1 5 9 1

TRANSPORTER 2 — 18. Transporter 2 Acknowledgement of Receipt of Materials — Printed/Typed Name — Signature — Date: Month Day Year

FACILITY — 19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. — Printed/Typed Name — Signature — Date: Month Day Year

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COPY 1. TSD MAIL TO GENERATOR

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STATE OF ILLINOIS

ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

P O BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

State Form LPC 62 8/91 IL532-0810

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter) EPA Form 8700-22 (Rev. 9-88) Form Approved OMB No 2050-0039, Expires 9-30-91

23.6 CTNS

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NJD002568715 — Manifest Document No.: 00117

2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is required by Illinois law

3. Generator's Name and Mailing Address — Location If Different.
Essex Specialty Products
1 Crossman Road South, Sayreville, New Jersey, 08872

4. Generator's Phone (201) 727-2100

A. Illinois Manifest Document Number: IL 3581901 — FEE PAID IF APPLICABLE

B. Illinois Generator's ID: 9340237548

5. Transporter 1 Company Name: Buffalo Fuel Corporation — 6. US EPA ID Number: NYD051809952

C. Illinois Transporter's ID: 11429

D. (716) 773-1921 Transporter's Phone

7. Transporter 2 Company Name — 8. US EPA ID Number

E. Illinois Transporter's ID

F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address — 10. US EPA ID Number
Trade Waste Incineration
7 Mobile Avenue
Sauget, Il 62201
ILD098642424

G. Illinois Facility's ID: 1631210001

H. Facility's Phone: (618) 271-2804

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. RQ Hazardous Waste Solid, N.O.S. [contains Bis (2-ethyl hexyl) phthalate] ORM-E NA9188	001	DT	00018	YD	EPA HW Number: XX 0028 — Authorization Number
b.					EPA HW Number: XX — Authorization Number
c.					EPA HW Number: XX — Authorization Number
d.					EPA HW Number: XX — Authorization Number

J. Additional Description for Materials Listed Above
Trailer # D-145 WO # N/A
Trailer Plate # 86402D Waste Profile # AC7360

K. Handling Codes for Wastes Listed Above in Item #14
1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information
24 Hour Emergency Response Number (800) 628-6091 Tuck Fisher

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.

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Printed/Typed Name: ARTHUR DURANT — Signature: Arthur Durant — Date (Month Day Year): 111591

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Vann Stanfill — Signature: [signature] — Date (Month Day Year): 111591

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date (Month Day Year)

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name — Signature — Date (Month Day Year)

GENERATOR — TRANSPORTER — FACILITY

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COPY 1. TSD MAIL TO GENERATOR

In case of a spill call the Illinois Office of Emergency Response at 217/782-3637 and the National Response Center at 800/424-8802 or 202/426-2675.

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STATE OF ILLINOIS

ENVIRONMENTAL PROTECTION AGENCY DIVISION OF LAND POLLUTION CONTROL

P.O. BOX 19276 SPRINGFIELD, ILLINOIS 62794-9276 (217) 782-6761

State Form LPC 62 8/81 IL532-0610

EPA Form 8700-22 (Rev. 9-88)

22.30 tons

PLEASE TYPE (Form designed for use on elite (12-pitch) typewriter)

Form Approved OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No: [illegible] Manifest Document No: [illegible]

2. Page 1 of 1

Information in the shaded areas is not required by Federal law, but is required by Illinois law.

3. Generator's Name and Mailing Address: Essex Specialty Products, 1 Crossman Road South, Sayreville, New Jersey 08672

Location if Different:

4. Generator's Phone (201) 727-2100

A. Illinois Manifest Document Number: IL 3581915 FEE PAID IF APPLICABLE

B. Illinois Generator's ID: [illegible]

5. Transporter 1 Company Name: Horwith Trucking Inc.

6. US EPA ID Number: PA0064035818

C. Illinois Transporter's ID: [illegible]

D. (219) 281-[illegible] Transporter's Phone

7. Transporter 2 Company Name:

8. US EPA ID Number:

E. Illinois Transporter's ID:

F. ( ) Transporter's Phone

9. Designated Facility Name and Site Address: Trade Waste Incineration, 7 Mobile Ave, Sauget, Illinois [illegible]

10. US EPA ID Number: [illegible]

G. Illinois Facility's ID: [illegible]

H. Facility's Phone: [illegible]

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. NA Hazardous Waste Solid, N.O.S. (Contains Bis (2-ethyl hexyl phthalate)) [illegible]	001	DT	[illegible]	[illegible]	EPA HW Number: XX [illegible] Authorization Number:
b.					EPA HW Number: XX Authorization Number:
c.					EPA HW Number: XX Authorization Number:
d.					EPA HW Number: XX Authorization Number:

J. Additional Description for Materials Listed Above

Trailer # [illegible] Work Order #

Trailer Plate # [illegible] Waste Profile AC7360

K. Handling Codes for Wastes Listed Above in Item #14

1 = Gallons 2 = Cubic Yards

15. Special Handling Instructions and Additional Information

24 Hour Emergency Response Number (800) 626-6891 - Tech Fisher

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.

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Printed/Typed Name: [illegible] Signature: [illegible] Date: Month Day Year: [illegible]

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: KEITH FRITZ Signature: [illegible] Date: Month Day Year: [illegible]

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: Signature: Date: Month Day Year:

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name: Signature: Date: Month Day Year:

This Agency is authorized to require, pursuant to Illinois Revised Statutes, Chapter 111½, Section 21, that this information be submitted to the Agency. Failure to provide this information may result in a civil penalty against the owner or operator of not to exceed $25,000 per day of violation. Falsification of this information may result in a fine up to $50,000 per day of violation and imprisonment up to 5 years. This form has been approved by the Forms Management Center.

COPY 5. GENERATOR MAIL TO IEPA

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ECOTEST LABORATORIES, INC.

ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C911410/2

04/29/91

Direct Environmental, Inc.
66-B Otis Street
West Babylon, NY 11704
ATTN: Michael Flynn

SOURCE OF SAMPLE: Essex Spec. Prod., #9111, (EPTOX)
COLLECTED BY: Client DATE COL'D:04/17/91 RECEIVED:04/19/91

SAMPLE: Liquid waste, W-3, Northern Surface H20

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS
Arsenic as As	mg/L•	<0.005	
Barium as Ba	mg/L•	<0.05	
Cadmium as Cd	mg/L•	<0.001	
Chromium as Cr	mg/L•	<0.02	
Lead as Pb	mg/L•	<0.005	
Mercury as Hg	mg/L•	<0.001	
Selenium as Se	mg/L•	<0.005	
Silver as Ag	mg/L•	<0.01	

cc:

REMARKS: • Analysis performed on EP Extract according to USEPA EP Toxicity procedure (40 CFR Part 261-Appen.II).

Sample was multilayered; all analysis was performed on top (organic) layer only, per client's instructions.

DIRECTOR

rn= 6045 NYSDOH ID# 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C911410/2 04/29/91

Direct Environmental, Inc.
66-B Otis Street
West Babylon, NY 11704
ATTN: Michael Flynn

SOURCE OF SAMPLE: Essex Spec. Prod., #9111
COLLECTED BY: Client DATE COL'D:04/17/91 RECEIVED:04/19/91

SAMPLE: Liquid waste, W-3, Northern Surface H20
UNITS: mg/Kg

ANALYTICAL PARAMETERS		ANALYTICAL PARAMETERS	
N-Nitrosodimethylamine	<500	1,2-Diphenylhydrazine	<500
Bis(2-chloroethyl)ether	<500	4-Bromophenyl phenyl ether	<500
13 Dichlorobenzene	<500	Hexachlorobenzene	<500
14 Dichlorobenzene	<500	Phenanthrene	<500
12 Dichlorobenzene	<500	Anthracene	<500
Bis(2-chloroisopropyl)ether	<500	Di-n-Butyl Phthalate	<500
N-Nitrosodi-n-propylamine	<500	Fluoranthene	<500
Hexachloroethane	<500	Benzidine	<2500
Nitrobenzene	<500	Pyrene	<500
Isophorone	<500	BenzylButylPhthalate	<500
Bis(2-chloroethoxy)methane	<500	Benzo(a)anthracene	<500
124-Trichlorobenzene	<500	3,3'-Dichlorobenzidine	<500
Naphthalene	<500	Chrysene	<500
Hexachlorobutadiene	<500	Bis(2-ethylhexyl)phthalate	790000
Hexachlorocyclopentadiene	<2500	Di-n-octyl Phthalate	<500
2-Chloronaphthalene	<500	Benzo(b)fluoranthene	<500
Dimethyl Phthalate	<500	Benzo(k)fluoranthene	<500
Acenaphthylene	<500	Benzo(a)pyrene	<500
2,6-Dinitrotoluene	<500	Indeno(1,2,3-cd)pyrene	<500
Acenaphthene	<500	Dibenzo(a,h)anthracene	<500
2,4-Dinitrotoluene	<500	Benzo(ghi)perylene	<500
Diethyl Phthalate	<500		
Fluorene	<500		
4-Chlorophenyl phenyl ether	<500		
N-Nitrosodiphenylamine	<500		

cc:

REMARKS:

Sample was multilayered; all analysis was performed on top (organic) layer only, per client's instructions.

DIRECTOR

rn= 6046 NYSDOH ID# 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon NY 11703
516 422-5777

(1)

LAB NO. C912431 07/17/91

Direct Environmental, Inc.
66-B Otis Street
West Babylon, NY 11704
ATTN: Michael Flynn

SOURCE OF SAMPLE: Essex Chemical, Bayerville, NJ, 09111
COLLECTED BY: Client DATE COL'D:06/28/91 RECEIVED:07/09/91

SAMPLE: Liquid waste, oil/water seperator, noon

ANALYTICAL PARAMETERS		
Chloromethane	ug/L	<1
Bromomethane	ug/L	<1
Dichlordifluomethane	ug/L	<1
Vinyl Chloride	ug/L	<1
Chloroethane	ug/L	<1
Methylene Chloride	ug/L	<1
Trichlorofluomethane	ug/L	<2
11 Dichloroethene	ug/L	<1
11 Dichloroethane	ug/L	<1
12 Dichloroethene	ug/L	<1
Chloroform	ug/L	<1
12 Dichloroethane	ug/L	<1
111 Trichloroethane	ug/L	<1
Carbon Tetrachloride	ug/L	<1
Bromodichloromethane	ug/L	<1
12 Dichloropropane	ug/L	<1
t 13 Dichloropropene	ug/L	<2
Trichloroethylene	ug/L	<1
Chlorodibromomethane	ug/L	<1
112 Trichloroethane	ug/L	<2
c 13 Dichloropropene	ug/L	<2
2chloroethvinylether	ug/L	<2
Bromoform	ug/L	<2
1122Tetrachloroethan	ug/L	<2
Tetrachloroethene	ug/L	<1

ANALYTICAL PARAMETERS		
Chlorobenzene	ug/L	<1
13 Dichlorobenzene	ug/L	<2
12 Dichlorobenzene	ug/L	<2
14 Dichlorobenzene	ug/L	<2
Benzene	ug/L	<1
Toluene	ug/L	<2
Ethyl Benzene	ug/L	<1
m Xylene	ug/L	<2
o+p Xylene	ug/L	<4

cc:

REMARKS: Volatile Organic analysis was done from a 16 oz. jar containing headspace.

DIRECTOR PRELIMINARY

rm= 10384 NYSDOH ID# 10320

95X

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EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon NY 11703
516 422-5777

LAB NO.C912431

07/16/91

Direct Environmental, Inc.
66-B Otis Street
West Babylon, NY 11704
ATTN: Michael Flynn

SOURCE OF SAMPLE: Essex Chemical, Bayerville, NJ, 08111
COLLECTED BY: Client DATE COL'D:06/28/91 RECEIVED:07/09/91

SAMPLE: Liquid waste, oil/water seperator, noon

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS
Aroclor 1016	ppm	<5	
Aroclor 1221	ppm	<5	
Aroclor 1232	ppm	<5	
Aroclor 1242	ppm	<5	
Aroclor 1248	ppm	<5	
Aroclor 1254	ppm	<5	
Aroclor 1260	ppm	<5	
Petrol. Hydrocarbons	mg/L	41	

cc:

REMARKS:

DIRECTOR PRELIMINARY

ra= 10585 NYSDOH ID# 10320

243

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon NY 11703
516 422-5777

LAB NO.C910314

02/12/91

Direct Environmental, Inc.
66-B Otis Street
West Babylon, NY 11704
ATTN: Michael Flynn

SOURCE OF SAMPLE: Essex, Sayerville, NJ (TCLP ZHE)
COLLECTED BY: Client DATE COL'D:01/28/91 RECEIVED:01/28/91

SAMPLE: Soil sample

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS
Carbon Tetrachloride	ug/L*	<1	
Chlorobenzene	ug/L*	<2	
Chloroform	ug/L*	<1	
14 Dichlorobenzene	ug/L*	<2	
12 Dichloroethane	ug/L*	<1	
11 Dichloroethene	ug/L*	<1	
Methyl Ethyl Ketone	ug/L*	<20	
Tetrachloroethene	ug/L*	<1	
Trichloroethylene	ug/L*	<1	
Vinyl Chloride	ug/L*	<1	
Benzene	ug/L*	<1	

cc:

REMARKS: * Analysis performed on TCLP/ZHE leachate according to USEPA Method 1311.

PRELIMINARY

DIRECTOR_____

1261

NYSDOH ID# 10320

Ecotest Laboratories Inc
377 Sheffield Ave
North Babylon NY 11703
516 422-3777

LAB NO. C910314

02/12/91

Direct Environmental, Inc.
66-B Otis Street
West Babylon, NY 11704
ATTN: Michael Flynn

SOURCE OF SAMPLE: Essex, Sayerville, NJ (TCLP METALS)
COLLECTED BY: Client DATE COL'D:01/28/91 RECEIVED:01/28/91

SAMPLE: Soil sample

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS
Arsenic as As	mg/L*	<0.005	
Barium as Ba	mg/L*	0.44	
Cadmium as Cd	mg/L*	<0.002	
Chromium as Cr	mg/L*	<0.05	
Lead as Pb	mg/L*	<0.01	
Mercury as Hg	mg/L*	<0.001	
Selenium as Se	mg/L*	<0.005	
Silver as Ag	mg/L*	<0.05	
Zinc as Zn	mg/L*	0.09	
Copper as Cu	mg/L*	<0.05	

cc:

REMARKS: * Analysis performed on TCLP leachate according to USEPA Method 1311.

DIRECTOR PRELIMINARY

rn* 1260 NYSDOH ID# 10320

245

FEB 12 '91 TUE 12:15 ECOTEST LABS INC. P.04

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon NY 11703
516 422-5777

LAB NO. C910314

02/12/91

Direct Environmental, Inc.
66-B Otis Street
West Babylon, NY 11704
ATTN: Michael Flynn

SOURCE OF SAMPLE: Essex, Sayerville, NJ
COLLECTED BY: Client DATE COL'D:01/28/91 RECEIVED:01/28/91

SAMPLE: Soil sample

ANALYTICAL PARAMETERS				ANALYTICAL PARAMETERS
Aroclor 1016		ug/Kg	<40	
Aroclor 1221		ug/Kg	<40	
Aroclor 1232		ug/Kg	<40	
Aroclor 1242		ug/Kg	<40	
Aroclor 1248		ug/Kg	<40	
Aroclor 1254		ug/Kg	28	
Aroclor 1260		ug/Kg	<40	
pH	units		6.1	
Flash Point	deg C	mg/Kg	>100	
Cyanide as CN		mg/Kg	<2	
Sulfide as S		mg/Kg	<2	

cc:

REMARKS:

DIRECTOR PRELIMINARY

rns 1262

NYSDOH ID# 10320

246

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon NY 11703
516 422-5777

LAB NO. C910314

02/12/91

Direct Environmental, Inc.
66-B Otis Street
West Babylon, NY 11704
ATTN: Michael Flynn

SOURCE OF SAMPLE: Essex, Sayerville, NJ
COLLECTED BY: Client DATE COL'D:01/28/91 RECEIVED:01/28/91

SAMPLE: Soil sample

ANALYTICAL PARAMETERS

Aroclor 1016		ug/Kg	<40
Aroclor 1221		ug/Kg	<40
Aroclor 1232		ug/Kg	<40
Aroclor 1242		ug/Kg	<40
Aroclor 1248		ug/Kg	<40
Aroclor 1254		ug/Kg	28
Aroclor 1260		ug/Kg	<40
pH	units		6.1
Flash Point	deg C	mg/Kg	>100
Cyanide as CN		mg/Kg	<2
Sulfide as S		mg/Kg	<2

ANALYTICAL PARAMETERS

cc:

REMARKS:

DIRECTOR PRELIMINARY

rns 1262

NYSDOH ID# 10320

LAB NO. C910314

02/12/91

Direct Environmental, Inc.
66-B Otis Street
West Babylon, NY 11704
ATTN: Michael Flynn

SOURCE OF SAMPLE: Essex, Sayerville, NJ
COLLECTED BY: Client
DATE COL'D: 01/28/91 RECEIVED: 01/28/91

SAMPLE: Soil sample
UNITS: ug/Kg

ANALYTICAL PARAMETERS	
N-Nitrosodimethylamine	<400
Bis(2-chloroethyl)ether	<400
13 Dichlorobenzene	<400
14 Dichlorobenzene	<400
12 Dichlorobenzene	<400
Bis(2-chloroisopropyl)ether	<400
N-Nitrosodi-n-propylamine	<400
Hexachloroethane	<400
Nitrobenzene	<400
Isophorone	<400
Bis(2-chloroethoxy)methane	<400
124-Trichlorobenzene	<400
Naphthalene	<400
Hexachlorobutadiene	<400
Hexachlorocyclopentadiene	<400
2-Chloronaphthalene	<1200
Dimethyl Phthalate	<400
Acenaphthylene	<400
2,6-Dinitrotoluene	<400
Acenaphthene	<400
2,4-Dinitrotoluene	<400
Diethyl Phthalate	<400
Fluorene	<400
4-Chlorophenyl phenyl ether	<400
N-Nitrosodiphenylamine	<400

ANALYTICAL PARAMETERS	
1,2-Diphenylhydrazine	<400
4-Bromophenyl phenyl ether	<400
Hexachlorobenzene	<400
Phenanthrene	<400
Anthracene	<400
Di-n-Butyl Phthalate	<400
Fluoranthene	<400
Benzidine	<400
Pyrene	<400
BenzylButylPhthalate	<400
Benzo(a)anthracene	<400
3,3'-Dichlorobenzidine	<400
Chrysene	<400
Bis(2-ethylhexyl)phthalate	8600
Di-n-octyl Phthalate	500
Benzo(b)fluoranthene	<400
Benzo(k)fluoranthene	<400
Benzo(a)pyrene	<400
Indeno(1,2,3-cd)pyrene	<400
Dibenzo(a,h)anthracene	<400
Benzo(ghi)perylene	<400

cc:

REMARKS:

DIRECTOR PRELIMINARY

1263 NYSDOH ID# 10320

ECOTEST LABORATORIES, INC. ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C911328 04/23/91

Direct Environmental, Inc.
66-B Otis Street
West Babylon, NY 11704
ATTN: Michael Flynn

SOURCE OF SAMPLE: Essex, #9111
COLLECTED BY: Client DATE COL'D:04/11/91 RECEIVED:04/16/91

SAMPLE: Liquid, surface water, Essex W-1

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS		
Chloromethane	ug/L	<5000	Chlorobenzene	ug/L	<10000
Bromomethane	ug/L	<5000	13 Dichlorobenzene	ug/L	<10000
Dichlordifluomethane	ug/L	<10000	12 Dichlorobenzene	ug/L	<10000
Vinyl Chloride	ug/L	<5000	14 Dichlorobenzene	ug/L	<10000
Chloroethane	ug/L	<5000	Benzene	ug/L	<5000
Methylene Chloride	ug/L	<5000	Toluene	ug/L	32000
Trichlorofluomethane	ug/L	<10000	Ethyl Benzene	ug/L	120000
11 Dichloroethene	ug/L	<5000	m Xylene	ug/L	890000
11 Dichloroethane	ug/L	<5000	o+p Xylene	ug/L	410000
12 Dichloroethene	ug/L	<5000			
Chloroform	ug/L	<5000			
12 Dichloroethane	ug/L	<5000			
111 Trichloroethane	ug/L	<5000			
Carbon Tetrachloride	ug/L	<5000			
Bromodichloromethane	ug/L	<5000			
12 Dichloropropane	ug/L	<5000			
t 13 Dichloropropene	ug/L	<10000			
Trichloroethylene	ug/L	<5000			
Chlorodibromomethane	ug/L	<10000			
112 Trichloroethane	ug/L	<10000			
c 13 Dichloropropene	ug/L	<10000			
2chloroethvinylether	ug/L	<10000			
Bromoform	ug/L	<10000			
1122Tetrachloroethan	ug/L	<10000			
Tetrachloroethene	ug/L	<5000			

cc:

REMARKS:

Sample was multilayered; all analysis was performed on top layer only per client instructions.

DIRECTOR

rn= 5655 NYSDOH ID# 10320

249

ECOTEST LABORATORIES, INC.

ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

04/23/91

LAB NO. C911328

Direct Environmental, Inc.
66-B Otic Street
West Babylon, NY 11704

ATTN: Michael Flynn

SOURCE OF SAMPLE: Essex, #9111
COLLECTED BY: Client DATE COL'D:04/11/91 RECEIVED:04/18/91

SAMPLE: Liquid, surface water•, Essex W-1

ANALYTICAL PARAMETERS

ANALYTICAL PARAMETERS		
Gasoline	•	N.D.
Lubricating Oil	•	N.D.
kerosene	mL/L•	<5
Fuel Oil	mL/L•	<5

cc:

REMARKS: • Analyzed by NYSDOH Method 310-13: Petroleum Products (Hydrocarbon Scan).

DIRECTOR_____

250

rn= 5058 NYSDOH ID# 10320

ECOTEST LABORATORIES, INC.

ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C911328

04/23/91

Direct Environmental, Inc.
66-B Otis Street
West Babylon, NY 11704
ATTN: Michael Flynn

SOURCE OF SAMPLE: Essex, #9111
COLLECTED BY: Client DATE COL'D:04/11/91 RECEIVED:04/16/91

SAMPLE: Liquid, surface water, Essex W-1

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS
Aroclor 1016	ppm	<5	
Aroclor 1221	ppm	<5	
Aroclor 1232	ppm	<5	
Aroclor 1242	ppm	<5	
Aroclor 1248	ppm	<5	
Aroclor 1254	ppm	<5	
Aroclor 1260	ppm	<5	

cc:

REMARKS:

Sample was multilayered; all analysis was performed on top layer only per client instructions.

DIRECTOR

rn= 5654 NYSDOH ID# 10320

(2)

ECOTEST LABORATORIES, INC.

ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C911328

04/23/91

Direct Environmental, Inc.
66-B Otis Street
West Babylon, NY 11704
ATTN: Michael Flynn

SOURCE OF SAMPLE: Essex, #9111
COLLECTED BY: Client DATE COL'D:04/11/91 RECEIVED:04/16/91

SAMPLE: Liquid, surface water•, Essex W-1
UNITS: mg/Kg

ANALYTICAL PARAMETERS		ANALYTICAL PARAMETERS	
N-Nitrosodimethylamine	<500	1,2-Diphenylhydrazine	<500
Bis(2-chloroethyl)ether	<500	4-Bromophenyl phenyl ether	<500
1,3 Dichlorobenzene	<500	Hexachlorobenzene	<500
1,4 Dichlorobenzene	<500	Phenanthrene	<500
1,2 Dichlorobenzene	<500	Anthracene	<500
Bis(2-chloroisopropyl)ether	<500	Di-n-Butyl Phthalate	<500
N-Nitrosodi-n-propylamine	<500	Fluoranthene	<500
Hexachloroethane	<500	Benzidine	<500
Nitrobenzene	<500	Pyrene	<2500
Isophorone	<500	BenzylButylPhthalate	<500
Bis(2-chloroethoxy)methane	<500	Benzo(a)anthracene	<500
1,2,4-Trichlorobenzene	<500	3,3'-Dichlorobenzidine	<500
Naphthalene	<500	Chrysene	<500
Hexachlorobutadiene	<500	Bis(2-ethylhexyl)phthalate	885000
Hexachlorocyclopentadiene	<2500	Di-n-octyl Phthalate	<500
2-Chloronaphthalene	<500	Benzo(b)fluoranthene	<500
Dimethyl Phthalate	<500	Benzo(k)fluoranthene	<500
Acenaphthylene	<500	Benzo(a)pyrene	<500
2,6-Dinitrotoluene	<500	Indeno(1,2,3-cd)pyrene	<500
Acenaphthene	<500	Dibenzo(a,h)anthracene	<500
2,4-Dinitrotoluene	<500	Benzo(ghi)perylene	<500
Diethyl Phthalate	<500		
Fluorene	<500		
4-Chlorophenyl phenyl ether	<500		
N-Nitrosodiphenylamine	<500		

cc:

REMARKS:

Sample was multilayered; all analysis was performed on top layer only per client instructions.

DIRECTOR T. Powell

rn= 5057 NYSDOH ID# 10320

252

ECOTEST LABORATORIES, INC.

ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C911328

04/23/91

Direct Environmental, Inc.
66-B Otis Street
West Babylon, NY 11704
ATTN: Michael Flynn

SOURCE OF SAMPLE: Essex, #9111, (TCLP METALS)
COLLECTED BY: Client DATE COL'D:04/11/91 RECEIVED:04/16/91

SAMPLE: Liquid, surface water•, Essex W-1

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS
Arsenic as As	mg/L•	<0.005	
Barium as Ba	mg/L•	<0.10	
Cadmium as Cd	mg/L•	<0.002	
Chromium as Cr	mg/L•	<0.02	
Lead as Pb	mg/L•	<0.01	
Mercury as Hg	mg/L•	<0.001	
Selenium as Se	mg/L•	<0.005	
Silver as Ag	mg/L•	<0.02	

cc:

REMARKS: • Analysis performed on EP Extract according to USEPA EP Toxicity procedure (40 CFR Part 261-Appen.II).

Sample was multilayered; all analysis was performed on top layer only per client instructions.

DIRECTOR

rn• 5656 NYSDOH ID# 10320

(2)

ECOTEST LABORATORIES, INC.

ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C911410/2 04/29/91

Direct Environmental, Inc.
66-B Otis Street
West Babylon, NY 11704
ATTN: Michael Flynn

SOURCE OF SAMPLE: Essex Spec. Prod., #9111
COLLECTED BY: Client DATE COL'D:04/17/91 RECEIVED:04/19/91

SAMPLE: Liquid waste, W-3, Northern Surface H20

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS
Aroclor 1016	ppm	<2.5	
Aroclor 1221	ppm	<2.5	
Aroclor 1232	ppm	<2.5	
Aroclor 1242	ppm	<2.5	
Aroclor 1248	ppm	43	
Aroclor 1254	ppm	<5	
Aroclor 1260	ppm	<2.5	

cc:

REMARKS:

Sample was multilayered; all analysis was performed on top (organic) layer only, per client's instructions.

DIRECTOR

rn= 6043 NYSDOH ID# 10320

ECOTEST LABORATORIES, INC.

ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C911410/2

04/29/91

Direct Environmental, Inc.
66-B Otis Street
West Babylon, NY 11704
ATTN: Michael Flynn

SOURCE OF SAMPLE: Essex Spec. Prod., #9111
COLLECTED BY: Client DATE COL'D:04/17/91 RECEIVED:04/19/91

SAMPLE: Liquid waste, W-3, Northern Surface H20

ANALYTICAL PARAMETERS		
Chloromethane	ug/L	<2000
Bromomethane	ug/L	<2000
Dichlordifluomethane	ug/L	<4000
Vinyl Chloride	ug/L	<2000
Chloroethane	ug/L	3500
Methylene Chloride	ug/L	<2000
Trichlorofluomethane	ug/L	<4000
11 Dichloroethene	ug/L	<2000
11 Dichloroethane	ug/L	<2000
12 Dichloroethene	ug/L	<2000
Chloroform	ug/L	<2000
12 Dichloroethane	ug/L	<2000
111 Trichloroethane	ug/L	<2000
Carbon Tetrachloride	ug/L	<2000
Bromodichloromethane	ug/L	<2000
12 Dichloropropane	ug/L	<2000
t 13 Dichloropropene	ug/L	<4000
Trichloroethylene	ug/L	<2000
Chlorodibromomethane	ug/L	<4000
112 Trichloroethane	ug/L	<4000
c 13 Dichloropropene	ug/L	<4000
2chloroethvinylether	ug/L	<4000
Bromoform	ug/L	<4000
1122Tetrachloroethan	ug/L	<4000
Tetrachloroethene	ug/L	<2000

ANALYTICAL PARAMETERS		
Chlorobenzene	ug/L	<4000
13 Dichlorobenzene	ug/L	<4000
12 Dichlorobenzene	ug/L	<4000
14 Dichlorobenzene	ug/L	<4000
Benzene	ug/L	2400
Toluene	ug/L	1000000
Ethyl Benzene	ug/L	39000
m Xylene	ug/L	350000
o+p Xylene	ug/L	150000
Petrol. Hydrocarbons	mg/L	630000

cc:

REMARKS:

Sample was multilayered; all analysis was performed on top (organic) layer only, per client's instructions.

DIRECTOR_____

rn= 6044 NYSDOH ID# 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C911410/1 04/29/91

Direct Environmental, Inc.
66-B Otis Street
West Babylon, NY 11704
ATTN: Michael Flynn

SOURCE OF SAMPLE: Essex Spec. Prod., #9111, (EPTOX)
COLLECTED BY: Client DATE COL'D:04/17/91 RECEIVED:04/19/91

SAMPLE: Liquid waste, W-2, oil sep. tank

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS
Arsenic as As	mg/L*	<0.005	
Barium as Ba	mg/L*	<0.05	
Cadmium as Cd	mg/L*	<0.001	
Chromium as Cr	mg/L*	<0.02	
Lead as Pb	mg/L*	0.039	
Mercury as Hg	mg/L*	0.001	
Selenium as Se	mg/L*	<0.005	
Silver as Ag	mg/L*	<0.01	

cc:

REMARKS: * Analysis performed on EP Extract according to USEPA EP Toxicity procedure (40 CFR Part 261-Appen.II).

Sample was multilayered; all analysis was performed on top (organic) layer only, per client's instructions.

DIRECTOR _____

NYSDOH ID# 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C911410/1 04/29/91

Direct Environmental, Inc.
66-B Otis Street
West Babylon, NY 11704
ATTN: Michael Flynn

SOURCE OF SAMPLE: Essex Spec. Prod., #9111
COLLECTED BY: Client DATE COL'D:04/17/91 RECEIVED:04/19/91

SAMPLE: Liquid waste, W-2, oil sep. tank

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS		
Chloromethane	ug/L	<100	Chlorobenzene	ug/L	<200
Bromomethane	ug/L	<100	13 Dichlorobenzene	ug/L	<200
Dichlordifluomethane	ug/L	<200	12 Dichlorobenzene	ug/L	<200
Vinyl Chloride	ug/L	<100	14 Dichlorobenzene	ug/L	<200
Chloroethane	ug/L	<100	Benzene	ug/L	<100
Methylene Chloride	ug/L	<100	Toluene	ug/L	27000
Trichlorofluomethane	ug/L	<200	Ethyl Benzene	ug/L	8300
11 Dichloroethene	ug/L	<100	m Xylene	ug/L	36000
11 Dichloroethane	ug/L	<100	o-p Xylene	ug/L	26000
12 Dichloroethene	ug/L	<100			
Chloroform	ug/L	<100	Petrol. Hydrocarbons	ug/L	570000
12 Dichloroethane	ug/L	<100			
111 Trichloroethane	ug/L	<100			
Carbon Tetrachloride	ug/L	<100			
Bromodichloromethane	ug/L	<100			
12 Dichloropropane	ug/L	<100			
t 13 Dichloropropene	ug/L	<200			
Trichloroethylene	ug/L	<100			
Chlorodibromomethane	ug/L	<200			
112 Trichloroethane	ug/L	<200			
c 13 Dichloropropene	ug/L	<200			
2chloroethvinylether	ug/L	<200			
Bromoform	ug/L	<200			
1122Tetrachloroethan	ug/L	<200			
Tetrachloroethene	ug/L	400			

cc:

REMARKS:

Sample was multilayered; all analysis was performed on top (organic) layer only, per client's instructions.

DIRECTOR _____

NYSDOH ID# 10320

ECOTEST LABORATORIES, INC.

ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C911410/1

04/23/91

Direct Environmental, Inc.
66-B Otis Street
West Babylon, NY 11704
ATTN: Michael Flynn

SOURCE OF SAMPLE: Essex Spec. Prod., #9111
COLLECTED BY: Client DATE COL'D:04/17/91 RECEIVED:04/19/91

SAMPLE: Liquid waste, W-2, oil sep. tank

ANALYTICAL PARAMETERS		ANALYTICAL PARAMETERS	
N-Nitrosodimethylami mg/Kg	<5	1,2-Diphenylhydrazin	<5
Bis(2-chloroethyl)et	<5	4-Bromophenyl phenyl	<5
13 Dichlorobenzene	<5	Hexachlorobenzene	<5
14 Dichlorobenzene	<5	Phenanthrene	<5
12 Dichlorobenzene	<5	Anthracene	<5
Bis(2-chloroisopropy	<5	Di-n-Butyl Phthalate	<5
N-Nitrosodi-n-propyl	<5	Fluoranthene	<5
Hexachloroethane	<5	Benzidine	<5
Nitrobenzene	<5	Pyrene	<25
Isophorone	<5	BenzylButylPhthalate	<5
Bis(2-chloroethoxy)m	<5	Benzo(a)anthracene	<5
124-Trichlorobenzene	<5	3,3'-Dichlorobenzidi	<5
Naphthalene	<5	Chrysene	<5
Hexachlorobutadiene	<5	Bis(2-ethylhexyl)pht	<5
Hexachlorocyclopenta	<25	Di-n-octyl Phthalate	<5
2-Chloronaphthalene	<5	Benzo(b)fluoranthene	<5
Dimethyl Phthalate	<5	Benzo(k)fluoranthene	<5
Acenaphthylene	<5	Benzo(a)pyrene	<5
2,6-Dinitrotoluene	<5	Indeno(1,2,3-cd)pyre	<5
Acenaphthene	<5	Dibenzo(a,h)anthrac	<5
2,4-Dinitrotoluene	<5	Benzo(ghi)perylene	<5
Diethyl Phthalate	<5		
Fluorene	<5		
4-Chlorophenyl phony	<5		
N-Nitrosodiphenylami	<5		

cc:

REMARKS:

Sample was multilayered; all analysis was performed on top (organic) layer only, per client's instructions.

DIRECTOR

6042

NYSDOH ID# 10320

ECOTEST LABORATORIES, INC.

ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C912721/2

08/07/91

Direct Environmental, Inc.
66-B Otis Street
West Babylon, NY 11704
ATTN: T. Fisher

SOURCE OF SAMPLE: DEI/Essex
COLLECTED BY: Client DATE COL'D:07/29/91 RECEIVED:07/29/91

SAMPLE: Water Sample, TF729 Tank, 10:00

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS
Arsenic as As	mg/L	<0.005	
Barium as Ba	mg/L	0.19	
Cadmium as Cd	mg/L	<0.001	
Chromium as Cr	mg/L	<0.02	
Lead as Pb	mg/L	<0.005	
Mercury as Hg	mg/L	<0.001	
Selenium as Se	mg/L	<0.005	
Silver as Ag	mg/L	<0.001	

cc:

REMARKS:

DIRECTOR

rn: 11999

NYSDOH ID# 10320

ECOTEST LABORATORIES, INC.

ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C912721/1

08/07/91

Direct Environmental, Inc.
66-B Otis Street
West Babylon, NY 11704
ATTN: T. Fisher

SOURCE OF SAMPLE: DEI/Essex
COLLECTED BY: Client DATE COL'D:07/29/91 RECEIVED:07/29/91

SAMPLE: Water sample, TF729A, 10:00

ANALYTICAL PARAMETERS		
Chloromethane	ug/L	<1
Bromomethane	ug/L	<1
Dichlordifluomethane	ug/L	<2
Vinyl Chloride	ug/L	<1
Chloroethane	ug/L	<1
Methylene Chloride	ug/L	<1
Trichlorofluomethane	ug/L	<2
11 Dichloroethene	ug/L	<1
11 Dichloroethane	ug/L	<1
12 Dichloroethene	ug/L	<1
Chloroform	ug/L	<1
12 Dichloroethane	ug/L	<1
111 Trichloroethane	ug/L	<1
Carbon Tetrachloride	ug/L	<1
Bromodichloromethane	ug/L	<1
12 Dichloropropane	ug/L	<1
t 13 Dichloropropene	ug/L	<2
Trichloroethylene	ug/L	<1
Chlorodibromomethane	ug/L	<2
112 Trichloroethane	ug/L	<2
c 13 Dichloropropene	ug/L	<2
2chloroethvinylether	ug/L	<2
Bromoform	ug/L	<2
1122Tetrachloroethan	ug/L	<2
Tetrachloroethene	ug/L	<1

ANALYTICAL PARAMETERS		
Chlorobenzene	ug/L	<2
13 Dichlorobenzene	ug/L	<2
12 Dichlorobenzene	ug/L	<2
14 Dichlorobenzene	ug/L	<2
Benzene	ug/L	<1
Toluene	ug/L	<2
Ethyl Benzene	ug/L	2
m Xylene	ug/L	4
o+p Xylene	ug/L	4

cc:

REMARKS:

DIRECTOR

rn= 11996 NYSDOH ID# 10320

260

ECOTEST LABORATORIES, INC.

ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C912721/1

08/07/91

Direct Environmental, Inc.
66-B Otis Street
West Babylon, NY 11704
ATTN: T. Fisher

SOURCE OF SAMPLE: DEI/Essex
COLLECTED BY: Client DATE COL'D:07/29/91 RECEIVED:07/29/91

SAMPLE: Water sample, TF729A, 10:00

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS
Arsenic as As	mg/L	<0.005	
Barium as Ba	mg/L	1.1	
Cadmium as Cd	mg/L	0.008	
Chromium as Cr	mg/L	0.03	
Lead as Pb	mg/L	0.22	
Mercury as Hg	mg/L	0.0033	
Selenium as Se	mg/L	<0.005	
Silver as Ag	mg/L	<0.01	

cc:

REMARKS:

DIRECTOR

rn= 11997 NYSDOH ID# 10320

261

ECOTEST LABORATORIES, INC.

ENVIRONMENTAL TESTING

377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (516) 422-5777 • FAX (516) 422-5770

LAB NO. C912721/2

08/07/91

Direct Environmental, Inc.
66-B Otis Street
West Babylon, NY 11704
ATTN: T. Fisher

SOURCE OF SAMPLE: DEI/Essex
COLLECTED BY: Client DATE COL'D:07/29/91 RECEIVED:07/29/91

SAMPLE: Water sample, TF729 Tank, 10:00

ANALYTICAL PARAMETERS

Chloromethane	ug/L	<1
Bromomethane	ug/L	<1
Dichlordifluomethane	ug/L	<2
Vinyl Chloride	ug/L	<1
Chloroethane	ug/L	<1
Methylene Chloride	ug/L	<1
Trichlorofluomethane	ug/L	<2
11 Dichloroethene	ug/L	<1
11 Dichloroethane	ug/L	<1
12 Dichloroethene	ug/L	<1
Chloroform	ug/L	<1
12 Dichloroethane	ug/L	<1
111 Trichloroethane	ug/L	<1
Carbon Tetrachloride	ug/L	<1
Bromodichloromethane	ug/L	<1
12 Dichloropropane	ug/L	<1
t 13 Dichloropropene	ug/L	<2
Trichloroethylene	ug/L	<1
Chlorodibromomethane	ug/L	<2
112 Trichloroethane	ug/L	<2
c 13 Dichloropropene	ug/L	<2
2chloroethvinylether	ug/L	<2
Bromoform	ug/L	<2
1122Tetrachloroethan	ug/L	<2
Tetrachloroethene	ug/L	<1

ANALYTICAL PARAMETERS

Chlorobenzene	ug/L	<2
13 Dichlorobenzene	ug/L	<2
12 Dichlorobenzene	ug/L	<2
14 Dichlorobenzene	ug/L	<2
Benzene	ug/L	<1
Toluene	ug/L	<2
Ethyl Benzene	ug/L	<1
m Xylene	ug/L	<2
o-p Xylene	ug/L	<4

cc:

REMARKS:

DIRECTOR

rn= 11998 NYSDOH ID# 10320

262

SEP-10-91 TUE 16:14 ECOTEST LABO INC.

EcoTest Laboratories Inc.
377 Sheffield Ave
North Babylon NY 11703
516 422-5777

LAB NO.C912949/1 09/10/91

Direct Environmental, Inc.
66-B Otis Street
West Babylon, NY 11704
ATTN: Tuck Fisher

SOURCE OF SAMPLE: Essex Spec Prdts
COLLECTED BY: Client DATE COL'D:08/08/91 RECEIVED:08/12/91

SAMPLE: Solid sample, ESP o/v-1, 1400

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS		
Chloromethane	ug/Kg	<5	Chlorobenzene	ug/Kg	<10
Bromomethane	ug/Kg	<5	13 Dichlorobenzene	ug/Kg	<10
Dichlordifluomethane	ug/Kg	<10	12 Dichlorobenzene	ug/Kg	<10
Vinyl Chloride	ug/Kg	<5	14 Dichlorobenzene	ug/Kg	<10
Chloroethane	ug/Kg	<5	Benzene	ug/Kg	<5
Methylene Chloride	ug/Kg	<5	Toluene	ug/Kg	<10
Trichlorofluomethane	ug/Kg	<10	Ethyl Benzene	ug/Kg	<5
11 Dichloroethene	ug/Kg	<5	m Xylene	ug/Kg	72
11 Dichloroethane	ug/Kg	<5	o-p Xylene	ug/Kg	20
12 Dichloroethene	ug/Kg	<5	Methyl Ethyl Ketone	ug/Kg	<100
Chloroform	ug/Kg	<5			
12 Dichloroethane	ug/Kg	<5			
111 Trichloroethane	ug/Kg	<5			
Carbon Tetrachloride	ug/Kg	<5			
Bromodichloromethane	ug/Kg	<5			
12 Dichloropropane	ug/Kg	<5			
t 13 Dichloropropene	ug/Kg	<10			
Trichloroethylene	ug/Kg	<5			
Chlorodibromomethane	ug/Kg	<10			
112 Trichloroethane	ug/Kg	<10			
c 13 Dichloropropene	ug/Kg	<10			
2chloroethvinylether	ug/Kg	<10			
Bromoform	ug/Kg	<10			
1122Tetrachloroethan	ug/Kg	<10			
Tetrachloroethene	ug/Kg	<5			

REMARKS:

PRELIMINARY

DIRECTOR

PN# 13272 NYSDOH ID# 10320

263

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon NY 11703

LAB NO. C91294 9/1 09/10/91

Direct Environmental, Inc.
66-8 Otis Street
West Babylon, NY 11704
ATTN: Tuck Fisher

SOURCE OF SAMPLE: Essex Spec Prdts
COLLECTED BY: Client DATE COLLECTED:08/00/91 RECEIVED:08/12/91

SAMPLE: Solid sample, ESP o/v-1, 1400
UNITS: ug/Kg

ANALYTICAL PARAMETERS	
N-Nitrosodimethylamine	<400
Bis(2-chloroethyl)ether	<400
1,3 Dichlorobenzene	<400
1,4 Dichlorobenzene	<400
1,2 Dichlorobenzene	<400
Bis(2-chloroisopropyl)ether	<400
N-Nitroso-di-n-propylamine	<400
Hexachloroethane	<400
Nitrobenzene	<400
Isophorone	<400
Bis(2-chloroethoxy)methane	<400
1,2,4-Trichlorobenzene	<400
Naphthalene	<400
Hexachlorobutadiene	<400
Hexachlorocyclopentadiene	<2000
2-Chloronaphthalene	<400
Dimethyl Phthalate	<400
Acenaphthylene	<400
2,6-Dinitrotoluene	<400
Acenaphthene	<400
2,4-Dinitrotoluene	<400
Diethyl Phthalate	<400
Fluorene	<400
4-Chlorophenyl phenyl ether	<400
N-Nitrosodiphenylamine	<400

ANALYTICAL PARAMETERS	
1,2-Diphenylhydrazine	<400
4-Bromophenyl phenyl ether	<400
Hexachlorobenzene	<400
Phenanthrene	560
Anthracene	350
Di-n-Butyl Phthalate	<400
Fluoranthene	430
Benzidine	<2000
Pyrene	1300
BenzylButylPhthalate	7800
Benzo(a)anthracene	<400
3,3'-Dichlorobenzidine	<2000
Chrysene	<400
Bis(2-ethylhexyl)phthalate	2200000
Di-n-octyl Phthalate	130000
Benzo(b)fluoranthene	<400
Benzo(k)fluoranthene	<400
Benzo(a)pyrene	<400
Indeno(1,2,3-cd)pyrene	<400
Dibenzo(a,h)anthracene	<400
Benzo(ghi)perylene	<400

cc:

REMARKS:

DIRECTOR PRELIMINARY

94X 13273 NYSDOH ID# 10320

264

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon NY 11703
516 422-3777

LAB NO.C912949/1 09/10/91

Direct Environmental, Inc.
66-B Otis Street
West Babylon, NY 11704
ATTN: Tuck Fisher

SOURCE OF SAMPLE: Essex Spec Prdts
COLLECTED BY: Client DATE COL'D:08/08/91 RECEIVED:08/12/91

SAMPLE: Solid sample, ESP o/v-1, 1400

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS
Aroclor 1016	ug/Kg	<400	
Aroclor 1221	ug/Kg	<400	
Aroclor 1232	ug/Kg	<400	
Aroclor 1242	ug/Kg	<400	
Aroclor 1248	ug/Kg	<400	
Aroclor 1254	ug/Kg	<400	
Aroclor 1260	ug/Kg	<400	
pH	units	6.1	
Flash Point	deg C	>100	
Cyanide as CN	mg/Kg	<2	
Sulfide as S	mg/Kg	12 *	
Petrol. Hydrocarbons	mg/Kg	1100	

cc:

REMARKS: * Reactive Sulfide.

DIRECTOR PRELIMINARY

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon NY 11703
516 422-5777

LAB NO. C912949/1 09/10/91

Direct Environmental, Inc.
66-B Otis Street
West Babylon, NY 11704
ATTN: Tuck Fisher

SOURCE OF SAMPLE: Essex Spec Prdts (TCLP METALS)
COLLECTED BY: Client DATE COL'D:08/08/91 RECEIVED:08/12/91

SAMPLE: Solid sample, ESP o/w-1, 1400

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS
Arsenic as As	mg/L*	<0.005	
Barium as Ba	mg/L*	1.5	
Cadmium as Cd	mg/L*	<0.001	
Chromium as Cr	mg/L*	<0.02	
Lead as Pb	mg/L*	0.012	
Mercury as Hg	mg/L*	<0.001	
Selenium as Se	mg/L*	<0.005	
Silver as Ag	mg/L*	<0.01	

cc:

REMARKS: * Analysis performed on TCLP leachate according to USEPA Method 1311.

DIRECTOR PRELIMINARY

PM# 13271 NYSDOH ID# 10320

266

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon NY 11703
516 422-5777

LAB NO. C912949/2 09/10/91

Direct Environmental, Inc.
86-D Otis Street
West Babylon, NY 11704
ATTN: Tuck Fisher

SOURCE OF SAMPLE: Essex Spec Prdts (TCLP METALS)
COLLECTED BY: Client DATE COL'D:08/07/91 RECEIVED:08/12/91

SAMPLE: Solid sample, ESP c/w-2, 1100

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS
Arsenic as As	mg/L*	<0.005	
Barium as Ba	mg/L*	1.3	
Cadmium as Cd	mg/L*	<0.001	
Chromium as Cr	mg/L*	<0.02	
Lead as Pb	mg/L*	0.017	
Mercury as Hg	mg/L*	<0.001	
Selenium as Se	mg/L*	<0.005	
Silver as Ag	mg/L*	<0.01	

cc:

REMARKS: * Analysis performed on TCLP leachate according to USEPA Method 1311.

PRELIMINARY

DIRECTOR_____

94% 19275 NYSDOH ID# 10328
09-12-91 11:12AM P006 #26
267

SEP-10-91 TUE 16:15 ECOTEST LABS INC.

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon NY 11703
316 422-5777

LAB NO. C912949/2 09/10/91

Direct Environmental, Inc.
86-B Otis Street
West Babylon, NY 11704
ATTN: Tuck Fisher

SOURCE OF SAMPLE: Essex Spec Prdts (TCLP METALS)
COLLECTED BY: Client DATE COL'D:08/07/91 RECEIVED:08/12/91

SAMPLE: Solid sample, ESP c/w-2, 1100

ANALYTICAL PARAMETERS			ANALYTICAL PARAMETERS
Arsenic as As	mg/L*	<0.005	
Barium as Ba	mg/L*	1.3	
Cadmium as Cd	mg/L*	<0.001	
Chromium as Cr	mg/L*	<0.02	
Lead as Pb	mg/L*	0.017	
Mercury as Hg	mg/L*	<0.001	
Selenium as Se	mg/L*	<0.005	
Silver as Ag	mg/L*	<0.01	

cc:

REMARKS: * Analysis performed on TCLP leachate according to USEPA Method 1311.

PRELIMINARY

DIRECTOR_____

*94% 19275 NYSDOH ID# 10320

268

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon NY 11703
516 422-5777

LAB NO. C912949/2 09/10/91

Direct Environmental, Inc.
66-B Otis Street
West Babylon, NY 11704
ATTN: Tuck Fisher

SOURCE OF SAMPLE: Essex Spec Prdts
COLLECTED BY: Client DATE COL'D:08/07/91 RECEIVED:08/12/91

SAMPLE: Solid sample, ESP o/w 2, 1100

ANALYTICAL PARAMETERS		
Chloromethane	ug/Kg	<5
Bromomethane	ug/Kg	<5
Dichlordifluomethane	ug/Kg	<10
Vinyl Chloride	ug/Kg	<5
Chloroethane	ug/Kg	<5
Methylene Chloride	ug/Kg	<5
Trichlorofluomethane	ug/Kg	<10
11 Dichloroethene	ug/Kg	<5
11 Dichloroethane	ug/Kg	<5
12 Dichloroethene	ug/Kg	<5
Chloroform	ug/Kg	<5
12 Dichloroethane	ug/Kg	<5
111 Trichloroethane	ug/Kg	<5
Carbon Tetrachloride	ug/Kg	<5
Bromodichloromethane	ug/Kg	<5
12 Dichloropropane	ug/Kg	<5
t 13 Dichloropropene	ug/Kg	<10
Trichloroethylene	ug/Kg	<5
Chlorodibromomethane	ug/Kg	<10
112 Trichloroethane	ug/Kg	<10
c 13 Dichloropropene	ug/Kg	<10
2chloroethylvinylether	ug/Kg	<10
Bromoform	ug/Kg	<10
1122Tetrachloroethan	ug/Kg	<10
Tetrachloroethene	ug/Kg	<5

ANALYTICAL PARAMETERS		
Chlorobenzene	ug/Kg	<10
13 Dichlorobenzene	ug/Kg	<10
12 Dichlorobenzene	ug/Kg	<10
14 Dichlorobenzene	ug/Kg	<10
Benzene	ug/Kg	<5
Toluene	ug/Kg	<10
Ethyl Benzene	ug/Kg	<5
m Xylene	ug/Kg	<10
o+p Xylene	ug/Kg	<20
Methyl Ethyl Ketone	ug/Kg	<100

GC:

REMARKS:

PRELIMINARY

DIRECTOR

NYSDOH ID# 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon NY 11703

LAB NO. C912949/2 09/10/91

Direct Environmental, Inc.
66-B Otis Street
West Babylon, NY 11704
ATTN: Tuck Fisher

SOURCE OF SAMPLE: Essex Spec Prdts
COLLECTED BY: Client DATE COLLECTED: 08/07/91 RECEIVED: 08/12/91

SAMPLE: Solid sample, ESP u/w-2, 1100
UNITS: ug/Kg

ANALYTICAL PARAMETERS	
N Nitrosodimethylamine	<400
Bis(2-chloroethyl)ether	<400
13 Dichlorobenzene	<400
14 Dichlorobenzene	<400
12 Dichlorobenzene	<400
Bis(2-chloroisopropyl)ether	<400
N-Nitrosodi-n-propylamine	<400
Hexachloroethane	<400
Nitrobenzene	<400
Isophorone	<400
Bis(2-chloroethoxy)methane	<400
124-Trichlorobenzene	<400
Naphthalene	<400
Hexachlorobutadiene	<400
Hexachlorocyclopentadiene	<2000
2-Chloronaphthalene	<400
Dimethyl Phthalate	<400
Acenaphthylene	<400
2,6-Dinitrotoluene	<400
Acenaphthene	<400
2,4-Dinitrotoluene	<400
Diethyl Phthalate	<400
Fluorene	1600
4-Chlorophenyl phenyl ether	<400
N-Nitrosodiphenylamine	<400

ANALYTICAL PARAMETERS	
1,2-Diphenylhydrazine	<400
4-Bromophenyl phenyl ether	<400
Hexachlorobenzene	<400
Phenanthrene	3000
Anthracene	1400
Di-n-Butyl Phthalate	1200
Fluoranthene	700
Benzidine	<2000
Pyrene	2200
BenzylButylPhthalate	9900
Benzo(a)anthracene	<400
3,3'-Dichlorobenzidine	<2000
Chrysene	<400
Bis(2-ethylhexyl)phthalate	4200000
Di-n-octyl Phthalate	112000
Benzo(b)fluoranthene	<400
Benzo(k)fluoranthene	<400
Benzo(a)pyrene	<400
Indeno(1,2,3-cd)pyrene	<400
Dibenzo(a,h)anthracene	<400
Benzo(ghi)perylene	<400

cc:

REMARKS:

DIRECTOR PRELIMINARY

NYSDOH ID# 10320

EcoTest Laboratories Inc
377 Sherfield Ave
North Babylon NY 11703
516 422-5777

LAB NO.C912949/2 09/10/91

Direct Environmental, Inc.
66-B Otis Street
West Babylon, NY 11704
ATTN: Tuck Fisher

SOURCE OF SAMPLE: Essex Spec Prdts
COLLECTED BY: Client DATE COL'D:08/07/91 RECEIVED:08/12/91

SAMPLE: Solid sample, ESP c/v-2, 1100

ANALYTICAL PARAMETERS

Aroclor 1016	ug/Kg	<400
Aroclor 1221	ug/Kg	<400
Aroclor 1232	ug/Kg	<400
Aroclor 1242	ug/Kg	<400
Aroclor 1248	ug/Kg	<400
Aroclor 1254	ug/Kg	<400
Aroclor 1260	ug/Kg	<400

ANALYTICAL PARAMETERS

pH	units	6.7
Flash Point	deg C	>100
Cyanide as CN	mg/Kg	<2
Sulfide as S	mg/kg	2.8 *
Petrol. Hydrocarbons	mg/Kg	700

cc:

REMARKS: * Reactive Sulfide.

PRELIMINARY

DIRECTOR

NYSDOH ID# 10320

CERTIFICATIONS:

A. The following certification shall be signed by the highest ranking individual at the site with overall responsibility for that site or activity. Where there is no individual at the site with overall responsibility for that site or activity, this certification shall be signed by the individual having responsibility for the overall operation of the site or activity.

I certify under penalty of law that the information provided in this document is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of N.J.S.A. 13:1K-6 et seq., I am personally liable for the penalties set forth at N.J.S.A. 13:1K-8.

Typed/Printed Name DAVID COURTER Title PLANT MANAGER

Signature David Courter Date 7/15/92

Sworn to and Subscribed Before Me
on this 15th
Date of July 1992

Notary

LINDA J. LAUZON
A Notary Public of New Jersey
My Commission Expires 8/1/1996

B. The following certification shall be signed as follows:

1. For a corporation, by a principal executive officer of at least the level of vice president;
2. For a partnership or sole proprietorship, by a general partner or the proprietor, respectively; or
3. For a municipality, State, Federal or other public agency, by either a principal executive officer or ranking elected official.

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application 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 civil penalties for knowingly submitting false, inaccurate, or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of N.J.S.A. 13:1K-6 et seq., I am personally liable for the penalties set forth at N.J.S.A. 13:1K-8.

Typed/Printed Name JERRY L. SPRADLING Title V.P. RESEARCH + DEVELOPMENT

Signature Jerry L. Spradling Date 7/15/92

Sworn to and Subscribed Before Me
on this 15th
Date of July 1992

Notary

LINDA J. LAUZON
A Notary Public of New Jersey
My Commission Expires 8/1/1996

REFERENCE NO. 19

Industrial Site Evaluation Element
Bureau of Environmental Evaluation and
Cleanup Responsibility Assessment

Report of Inspection

ECRA Case # 90472

Date of Inspection: 12/3/90

Inspection Type: Preliminary ✓ Interim ____ Final ____ Other ____

Inspector: Randy T. Chandler

Industrial Establishment: Essex Speciality Products, Inc.

Location: 1 Crossman Rd. So., Sayreville, Middlesex County

Individuals Involved: Debbie Rosenthal, Essex Chemical
Phone # (201) 773-1569

NARRATIVE DESCRIPTION: The ECRA trigger is a sale of property. An inspection of the building and surrounding property was conducted. No additional areas of concern were noted. All areas of concern are currently being addressed as part of a cleanup for ECRA case #88904.

Inspector's Signature: Randy T. Chandler

Ref. No. 19 p. 1

Industrial Site Evaluation File Review Record

Notice number 90472

Company name ESSEX SPECIALTY PRODUCTS, INC.

Municipality SAYREVILLE BORO County MIDDLESEX

Agency	Method of Contacting Agency	File Exists ?	File Reviewed or Obtained ?	Contents of File
STATE 1. AIR POLLUTION CONTROL	Master List date:	Y		15550
2. WASTE MANAGEMENT a. Permits TSD Facility	Master List date:	N		
b. Alpha Manifests	Master List date:	Y		NJD002568715
(1981 to 1984) c. Manifests	Master List date:	Y		
d. Enforcement Office	Master List date:	Y		12-19-24
e. K&SH S/HSMA	Master List date:	Y		
3. WATER RESOURCES a.1 NJPDES Alpha	Master List date:	N		
.2 BGWOM	Master List date:	N		
b. G W P I	Master List date:	N		
c. Enforcement Office	Master List date:	N		
d. Master File	Master List date:	N		
4. INDUSTRIAL SURVEY	Memo Sent	N		
5. CRIMINAL JUSTICE	Memo Sent	—		
FEDERAL 6. US EPA Edison, Spills	Master List date:	N		
LOCAL 7. Mayor's Office	Date 6/4/90 Letter to Mayor Sent			
8. Health Office (phone number) ( )	Master List date:			
9. Other				

Considered complete as of 1/31/91 reviewer Randy J. Grande

Ref. No. 19a.2

Industrial Site Evaluation Element
Bureau of Environmental Evaluation and
Cleanup Responsibility Assessment

Report of Inspection

ECRA Case # 88904 Date of Inspection: May 17, 1991

Inspection Type: Preliminary ____ Interim ✓ Final ____ Other ____

Inspector: William J Hadrell Jr

Industrial Establishment: Essex Specialty Products

Location: Laytonville, Middlesex County

Individuals Involved: Brent Thompson, Direct Environmental
Daniel Kopcow, Woodward Clyde. PM Carter, Essex Specialty

NARRATIVE DESCRIPTION:

Arrived on location at 1010 HRS. Observed the area of excavation that will infringe into the wetlands area. This matter is currently under review. A temporary oil water separator is at this time, in production. Pictures were taken at this sight.

Left area at 1050

Inspector's Signature: William J Hadrell Jr

Ref. No. 19p 3

Industrial Site Evaluation Element
Bureau of Environmental Evaluation and
Cleanup Responsibility Assessment

Report of Inspection

ECRA Case # 88904 **Date of Inspection:** 6/25/92

Inspection Type: Preliminary____ **Interim** ✓ **Final**____ **Other**____

Inspector: Grace Jacob

Industrial Establishment: Essex Specialty

Location: Sayreville Boro

Individuals Involved: Bob Gaibros - Woodward-Clyde, David Courter
Chris Lacey, NJDEPE/BEERA

NARRATIVE DESCRIPTION: Arrived at the site at 10:05 a.m. Met w/ Bob Gaibros + David Courter (Essex). We walked around the 1st building(s) by the parking lot to the area of the excavation (wet pads) the storm drains were located + identified (#5 + #11). We also walked in the excavation area to look at the cleanup sump (black round tile) that they installed but decided not to use. They will propose to excavate the soil by the contaminated well in an attempt to remove the source + if they can they will collect post ex soil samples. He will submit the final soils report by July 15th + the groundwater proposal will follow appx. two weeks later. They will explain why they don't feel the pump test is feasible. They are still trying to locate Forms A + B for the ethyl-6 well. We will check who the geologist is + see if they have them.

We left the site at 11:10 a.m.

Inspector's Signature: Grace Jacob

Ref. No. 19 p. 4

Industrial Site Evaluation Element
Bureau of Environmental Evaluation and
Cleanup Responsibility Assessment

Report of Inspection

ECRA Case # 88904 Date of Inspection: Oct 18 1990

Inspection Type: Preliminary ____ Interim ✓ Final ____ Other ____

Inspector: W Hadsell

Industrial Establishment: Essex Specialty Products

Location: Sayreville Middlesex Co.

Individuals Involved: Sal Balakrisnan, DEP ECRA
Deborah Rosenthal Essex Specialty

NARRATIVE DESCRIPTION: There has not been any remediation activity on site due to an extension of cleanup till Nov 30, 1990. During the inspection friable Asbestos was observed outside the building leading to a loading station. This AEC was not mentioned in the cleanup plan. All other AEC were observed and noted for future remediation activities

Inspector's Signature: W Hadsell

Ref. No. 19 p. 5

REFERENCE NO. 20

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

BOROUGH OF
SAYREVILLE,
NEW JERSEY
MIDDLESEX COUNTY

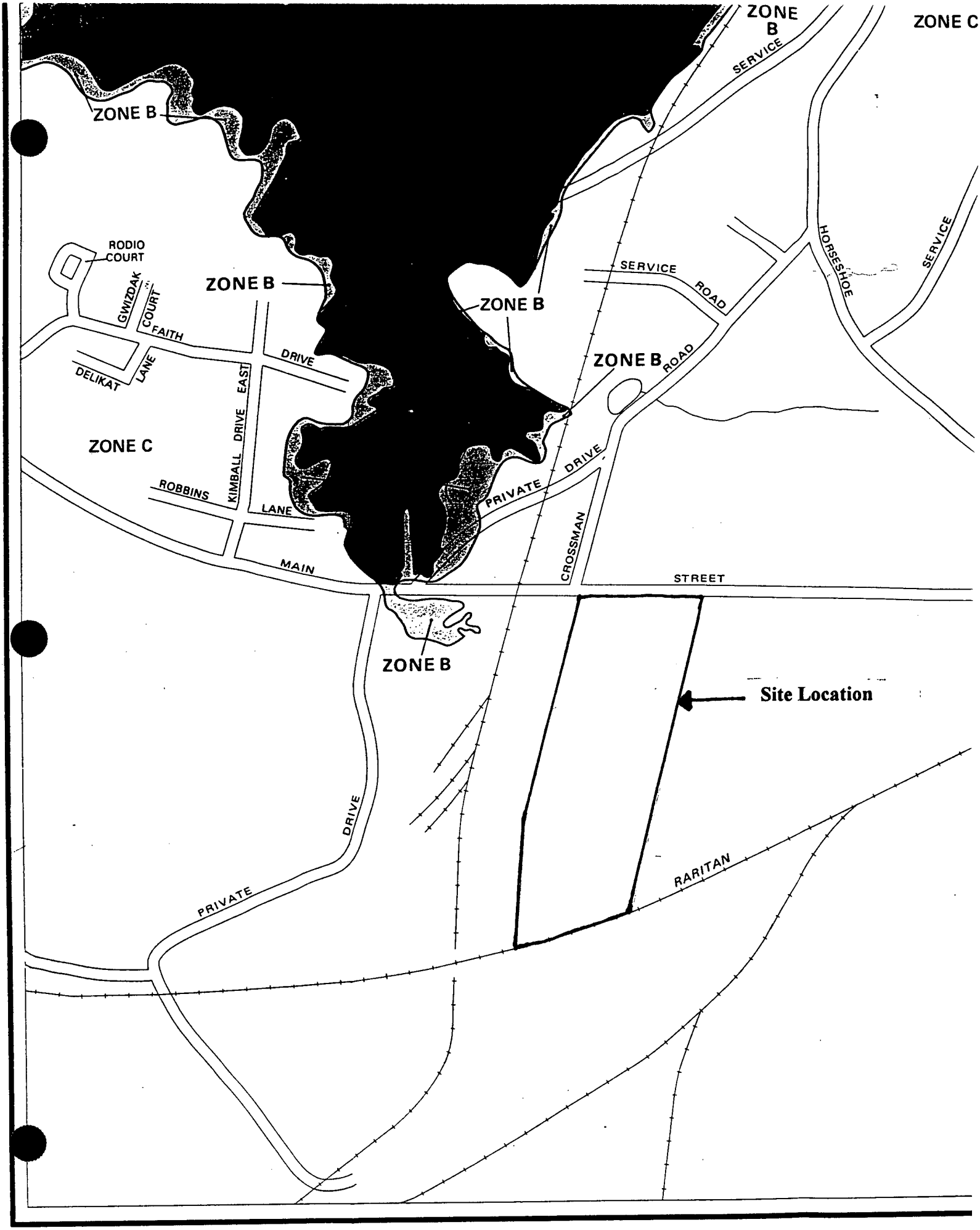
PANEL 2 OF 5
(SEE MAP INDEX FOR PANELS NOT PRINTED)

COMMUNITY-PANEL NUMBER
340276 0002 C

MAP REVISED:
JANUARY 16, 1987

Federal Emergency Management Agency

Ref. No.20 p. 1


ZONE B
ZONE C
ZONE B
SERVICE
ZONE B
RODIO COURT
GWIZDAK COURT
FAITH
DELIKAT LANE
ZONE B
DRIVE
KIMBALL DRIVE EAST
ZONE C
ROBBINS
LANE
MAIN
ZONE B
SERVICE ROAD
ZONE B
ROAD
PRIVATE DRIVE
CROSSMAN
STREET
HORSESHOE
SERVICE
ZONE B
Site Location
PRIVATE DRIVE
RARITAN

Ref. No. 20 p. 2

KEY TO MAP

500-Year Flood Boundary	ZONE B
100-Year Flood Boundary	
Zone Designations*	ZONE A / ZONE AO
100-Year Flood Boundary	
500-Year Flood Boundary	ZONE B
Base Flood Elevation Line With Elevation In Feet**	513
Base Flood Elevation in Feet Where Uniform Within Zone**	(EL 987)
Elevation Reference Mark	RM7x
Zone D Boundary	
River Mile	•M1.5

**Referenced to the National Geodetic Vertical Datum of 1929

*EXPLANATION OF ZONE DESIGNATIONS

ZONE	EXPLANATION
A	Areas of 100-year flood; base flood elevations and flood hazard factors not determined.
AO	Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; average depths of inundation are shown, but no flood hazard factors are determined.
AH	Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; base flood elevations are shown, but no flood hazard factors are determined.
A1-A30	Areas of 100-year flood; base flood elevations and flood hazard factors determined.
A99	Areas of 100-year flood to be protected by flood protection system under construction; base flood elevations and flood hazard factors not determined.
B	Areas between limits of the 100-year flood and 500-year flood; or certain areas subject to 100-year flooding with average depths less than one (1) foot or where the contributing drainage area is less than one square mile; or areas protected by levees from the base flood. (Medium shading)
C	Areas of minimal flooding. (No shading)
D	Areas of undetermined, but possible, flood hazards.
V	Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors not determined.
V1-V30	Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors determined.

NOTES TO USER

Certain areas not in the special flood hazard areas (zones A and V) may be protected by flood control structures.

This map is for use in administering the National Flood Insurance Program; it does not necessarily identify all areas subject to flooding, particularily from local drainage sources of small size, or all planimetric features outside special flood hazard areas. The coastal flooding elevations shown may differ significantly from those developed by the National Weather Service for hurricane evacuation planning.

For adjoining map panels, see separately printed Index To Map Panels.

Coastal base flood elevations shown on this map include the effects of wave action.

Coastal base flood elevations apply only landward of 0.0 NGVD.

INITIAL IDENTIFICATION:
DECEMBER 28, 1973

FLOOD HAZARD BOUNDARY MAP REVISIONS:
APRIL 16, 1976

FLOOD INSURANCE RATE MAP EFFECTIVE:
MARCH 16, 1981

FLOOD INSURANCE RATE MAP REVISIONS:
January 16, 1987-to lower base flood elevations, to reduce special flood hazard areas, to change zone designations, and to include the effects of wave action.

To determine if flood insurance is available in this community, contact your insurance agent, or call the National Flood Insurance Program, at (800) 638-6620.

APPROXIMATE SCALE

500 0 500 FEET

Ref. No. 20 p.3

REFERENCE NO. 21

Surface Water Quality Standards

N. J. A. C. 7:9B

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

Office Of Environmental Planning
April 1998

Ref. NO. 21 p. 1

STATE OF NEW JERSEY
Christine Todd Whitman, Governor

DEPARTMENT OF ENVIRONMENTAL PROTECTION
Robert Shinn, Commissioner

ENVIRONMENTAL PLANNING AND SCIENCE
Bob Tudor, Assistant Commissioner

SURFACE WATER QUALITY STANDARDS

Authority
N.J.S.A. 13:1D-1 et seq., 58:10A-1 et seq.,and 58:11A-1 et seq.

Effective Date
Readoption - April 17, 1998
Amendments - May 18, 1998

Executive Order No. 66(1978) Expiration Date
Chapter 9B, Surface Water Quality Standards, expires on April 18, 2003

A copy of this document can be obtained by calling 609-633-7020
or by sending a written request to:

Office of Environmental Planning
Department of Environmental Protection
P.O. Box 418
Trenton, NJ 08625

Ref. No. 2p. 2

"Nonpoint source" or "NPS" means:

1. Any man-made or man-induced activity, factor, or condition, other than a point source, from which pollutants are or may be discharged;
2. Any man-made or man-induced activity, factor, or condition, other than a point source, that may temporarily or permanently change any chemical, physical, biological, or radiological characteristic of waters of the State from what was or is the natural, pristine condition of such waters, or that may increase the degree of such change; or
3. Any activity, factor, or condition, other than a point source, that contributes or may contribute to water pollution.

"Nontrout waters" means fresh waters that have not been designated in N.J.A.C. 7:9B-1.15(b) through (h) as trout production or trout maintenance. These waters are generally not suitable for trout because of their physical, chemical, or biological characteristics, but are suitable for a wide variety of other fish species.

"NPDES" means National Pollutant Discharge Elimination System.

"NT" means nontrout waters.

"Nutrient" means a chemical element or compound, such as nitrogen or phosphorus, which is essential to and promotes the growth and development of organisms.

"Outstanding National Resource Waters" means high quality waters that constitute an outstanding national resource (for example, waters of National/State Parks and Wildlife Refuges and waters of exceptional recreational or ecological significance) as designated in N.J.A.C. 7:9B-1.15(i).

"Persistent" means relatively resistant to degradation, generally having a half life of over 96 hours.

"Pinelands waters" means all waters within the boundaries of the Pinelands Area, except those waters designated as FW1 in N.J.A.C. 7:9B-1.15(h) Table 6, as established in the Pinelands Protection Act (N.J.S.A. 13:18A-1 et seq.) and shown on Plate 1 of the "Comprehensive Management Plan" adopted by the New Jersey Pinelands Commission in November 1980.

"PL" means the general surface water classification applied to Pinelands Waters.

"Point source" or "PS" means any discernible, confined, and discrete conveyance, including, but not limited to, any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, landfill leachate collection system, vessel, or other floating craft, from which pollutants are or may be discharged. This term does not include return flows from irrigated agriculture.

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"Pollutant" means any dredged spoil, solid waste, incinerator residue, filter backwash, sewage, garbage, refuse, oil, grease, sewage sludge, munitions, chemical wastes, biological materials, medical wastes, radioactive substance (except those regulated under the Atomic Energy Act of 1954, as amended (42 U.S.C. § 2011 et. seq.)), thermal waste, wrecked or discarded equipment, rock, sand, cellar dirt and industrial, municipal, agricultural and construction waste or runoff or other residue discharged directly or indirectly to the land, ground waters or surface waters of the State, or to a domestic treatment works as defined at N.J.A.C. 7:14A-1.2. "Pollutant" includes both hazardous and nonhazardous pollutants.

"Primary contact recreation" means water related recreational activities that involve significant ingestion risks and includes, but is not limited to, wading, swimming, diving, surfing, and water skiing.

"Public hearing" means a legislative type hearing before a representative or representatives of the Department providing the opportunity for public comment, but does not include cross-examination.

"River mile" or "R.M." means the distance, measured in statute miles, between two locations on a stream, with the first location designated as mile zero. For example, mile zero for the Delaware River is located at the intersection of the center line of the navigation channel and a line between the Cape May Light, New Jersey, and the tip of Cape Henlopen, Delaware.

"Saline waters" means waters having salinities generally greater than 3.5 parts per thousand at mean high tide.

"SC" means the general surface water classification applied to coastal saline waters.

"SE" means the general surface water classification applied to saline waters of estuaries.

"Secondary contact recreation" means recreational activities where the probability of water ingestion is minimal and includes, but is not limited to, boating and fishing.

"Shellfish" means those mollusks commonly known as clams, oysters, or mussels.

"Shellfish waters" means waters classified as Approved, Seasonally Approved, Special Restricted, Seasonally Special Restricted or Condemned that support or possess the potential to support shellfish which are within the Coastal Area Facility Review Act (C.A.F.R.A.) zone as delineated in 1973, (excluding: 1 - The Cohansey River upstream of Brown's Run; 2 - The Maurice River upstream of Route 548; 3 - The Great Egg Harbor River upstream of Powell Creek; 4 - The Tuckahoe River upstream of Route 50; 5 - The Mullica River upstream of the Garden State Parkway) plus the adjacent areas between Route 35 (from its juncture with the C.A.F.R.A. zone just north of Red Bank to

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(g) In those cases in which a thermal discharge is involved, the procedures for reclassifying segments for more restrictive uses shall be consistent with section 316 of the Federal Clean Water Act.

7:9B-1.12 Designated uses of FW1, PL, FW2, SE1, SE2, SE3, and SC waters

(a) In all FW1 waters the designated uses are:

1. Set aside for posterity to represent the natural aquatic environment and its associated biota;

2. Primary and secondary contact recreation;

3. Maintenance, migration and propagation of the natural and established aquatic biota; and

4. Any other reasonable uses.

(b) In all PL waters the designated uses are:

1. Cranberry bog water supply and other agricultural uses;

2. Maintenance, migration and propagation of the natural and established biota indigenous to this unique ecological system;

3. Public potable water supply after conventional filtration treatment (a series of processes including filtration, flocculation, coagulation, and sedimentation, resulting in substantial particulate removal but no consistent removal of chemical constituents) and disinfection;

4. Primary and secondary contact recreation; and

5. Any other reasonable uses.

(c) In all FW2 waters the designated uses are:

1. Maintenance, migration and propagation of the natural and established biota;

2. Primary and secondary contact recreation;

3. Industrial and agricultural water supply;

4. Public potable water supply after conventional filtration treatment (a series of processes including filtration, flocculation, coagulation, and

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sedimentation, resulting in substantial particulate removal but no consistent removal of chemical constituents) and disinfection; and

5. Any other reasonable uses.

(d) In all SE1 waters the designated uses are:

1. Shellfish harvesting in accordance with N.J.A.C. 7:12;

2. Maintenance, migration and propagation of the natural and established biota;

3. Primary and secondary contact recreation; and

4. Any other reasonable uses.

(e) In all SE2 waters the designated uses are:

1. Maintenance, migration and propagation of the natural and established biota;

2. Migration of diadromous fish;

3. Maintenance of wildlife;

4. Secondary contact recreation; and

5. Any other reasonable uses.

(f) In all SE3 waters the designated uses are:

1. Secondary contact recreation;

2. Maintenance and migration of fish populations;

3. Migration of diadromous fish;

4. Maintenance of wildlife; and

5. Any other reasonable uses.

(g) In all SC waters the designated uses are:

1. Shellfish harvesting in accordance with N.J.A.C. 7:12;

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point of land located at the northern extent of Monmouth Parkway in Monmouth Beach and all waters south of a line beginning on the western shoreline (just east of Monmouth Parkway in Monmouth Beach) and bearing approximately 081 degrees T (True North), intersecting Channel Marker Flashing Red 4 and Channel Marker Flashing Red 2 and terminating on the eastern shoreline of the Galilee section of Monmouth Beach.	
NESHANIC RIVER (Reaville) - Entire length	FW2-NT
NORTON BROOK (Norton) - Entire length	FW2-TP(C1)
OAKDALE CREEK (Chester) - Entire length	FW2-TP(C1)
OAKEYS BROOK (Deans) - Entire length	FW2-NT
OCEANPORT CREEK	
(Fort Monmouth) - Source to a line beginning on the easternmost extent of Horseneck Point and bearing approximately 140 degrees T (True North) to its terminus on the westernmost extent of an unnamed extent of Monmouth Boulevard in Oceanport	FW2-NT/SE1
(Oceanport) - Creek downstream of line described above	SE1(C1)
PARKERS CREEK	
(Fort Monmouth) - Source to a line beginning on the easternmost extent of Horseneck Point and bearing approximately 000 degrees T (True North) to its terminus on Breezy Point on the Little Silver side (north) side of the creek	FW2-NT/SE1
(Fort Monmouth) - Creek downstream of line described above	SE1(C1)
PEAPACK BROOK (Gladstone) - Entire length	FW2-TP(C1)
PETERS BROOK (Somerville) - Entire length	FW2-NT
PIGEON SWAMP (Pigeon Swamp State Park) - All waters within the boundaries of Pigeon Swamp State Park	FW2-NT(C1)
PIKE RUN (Belle Meade) - Entire length	FW2-NT
PINE BROOK (Clarks Mills) - Entire length	FW2-NT
PINE BROOK (Cooks Mill) - Entire length	FW2-TM
PLEASANT RUN (Readington) - Entire length	FW2-NT
PRESCOTT BROOK (Stanton Station) - Entire length	FW2-TM
RAMANESSIN (HOP) BROOK (Holmdel) - Entire length	FW2-TM
→ RARITAN BAY - Entire drainage	FW2-NT/SE1

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RARITAN RIVER	
NORTH BRANCH (Also see INDIA BROOK)	
(Pleasant Valley) - Source to, but not including, Ravine Lake	FW2-TP(C1)
(Far Hills) - Ravine Lake dam to Rt. 512 bridge	FW2-TM
(Bedminister) - Rt. 512 bridge to confluence with South Branch, Raritan River	FW2-NT
SOUTH BRANCH RARITAN RIVER	
(Mt. Olive) - Source to the dam that is 390 feet upstream of the Flanders-Drakestown Road bridge and the two tributaries which originate north and east of the Budd Lake Airfield	FW2-NT(C1)
(Mt. Olive) - Dam to confluence with Turkey Brook	FW2-TM(C1)
(Middle Valley) - Confluence with Turkey Brook to Rt. 512 bridge	FW2-TP(C1)
(Califon) - Rt. 512 bridge to downstream end of Packers Island, except segment described separately, below	FW2-TM
(Ken Lockwood Gorge) - River and tributaries within Ken Lockwood Gorge Wildlife Management Area	FW2-TM(C1)
(Neshanic Sta.) - Downstream end of Packers Island to confluence with North Branch, Raritan River	FW2-NT
TRIBUTARIES, SOUTH BRANCH RARITAN RIVER	
(Long Valley) - Entire length	FW2-TP(C1)
(S. of Hoffmans) - Entire length	FW2-TP(C1)
(S. of Schooley's Mt.) - Entire length	FW2-TP(C1)
MAIN STEM RARITAN RIVER	
(Bound Brook) - From confluence of North and South Branches to Landing Lane bridge in New Brunswick and all freshwater tributaries downstream of Landing Lane bridge.	FW2-NT
→ (Sayreville) - Landing Lane bridge to Raritan Bay and all saline water tributaries	SE1
RINEHART BROOK (Hacklebarney) - Entire length	FW2-TP(C1)
ROCK BROOK (Montgomery) - Entire length	FW2-NT
ROCKAWAY CREEK	
NORTH BRANCH	
(Mountainville) - Source to Rt. 523 bridge	FW2-TP(C1)
(Whitehouse) - Rt. 523 bridge to confluence with South Branch	FW2-TM
SOUTH BRANCH (Whitehouse) - Entire length	FW2-TM
MAIN STEM (Whitehouse) - Confluence of North and South Branches to Lamington River	FW2-NT
ROCKY RUN - (Lebanon) - Entire length	FW2-TP(C1)
ROUND VALLEY RESERVOIR (Clinton)	FW2-TP

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ROYCE BROOK (Manville) - Entire length	FW2-NT
SANDY HOOK BAY (Sandy Hook)	SE1
SHREWSBURY RIVER	
(Little Silver) - Source to Rt. 36 highway bridge	SE1(C1)
(Highlands) - Rt. 36 bridge to Sandy Hook Bay	SE1
SIDNEY BROOK (Grandin) - Entire length	FW2-NT
SIMONSON BROOK (Griggstown) - Entire length	FW2-NT
SIX MILE RUN	
(Franklin Church) - Entire length, except segment described below	FW2-NT
(Hillsborough) - Segment within the boundaries of Six Mile Run State Park	FW2-NT(C1)
SOUTH RIVER	
(Old Bridge) - Duhernal Lake to intake of the Sayreville Water Department	FW2-NT
(Sayreville) - Below the intake of the Sayreville Water Department	SE1
SPOOKY BROOK (Bound Brook)	FW2-NT
SPRUCE RUN	
(Glen Gardner) - Source to, but not including, Spruce Run Reservoir	FW2-TP(C1)
(Clinton) - Spruce Run Reservoir dam to Raritan River, South Branch	FW2-TM
SPRUCE RUN RESERVOIR (Union) - Reservoir and tributaries	FW2-TM(C1)
STONY BROOK (Washington) - Entire length	FW2-TP(C1)
STONY BROOK	
(Hopewell) - Entire length, except that segment described below	FW2-NT
(Syndertown) - Brook and tributaries within Amwell Lake Wildlife Management Area	FW2-NT(C1)
STONY BROOK (Watchung) - Entire length	FW2-NT
SUN VALLEY BROOK (Mt Olive) - Entire length	FW2-TP(C1)
SWIMMING RIVER	
(Red Bank) - Source to the intake of the Monmouth Consolidated Water Company at the Swimming River Reservoir dam	FW2-NT
(Red Bank) - Below the Swimming River Reservoir dam to the Navesink River	FW2-NT/SE1
TANNERS BROOK (Washington) - Entire length	FW2-NT(C1)
TEETERTOWN BROOK (Lebanon) - Entire length	FW2-TP(C1)
TEN MILE RUN (Franklin) - Entire length	FW2-NT
TENNENT BROOK (Old Bridge) - Entire length	FW2-NT
TEPEHEMUS BROOK (Manalapan) - Entire length	FW2-NT

Ref. No. 21 p.9

REFERENCE NO. 22

ESSEX SPECIALTY PRODUCTS, INC.
SAYREVILLE BOROUGH FACILITY
SAYREVILLE, NEW JERSEY

ECRA Case No. 88904

Response to NJDEP Deficiency Letter (7/25/89)
and Report of Inspection (5/22/89)

22 September 1989

Prepared for:

Essex Chemical Corporation, Inc.
1401 Broad Street
Clifton, New Jersey 07015

Prepared by:

Environmental Resources Management, Inc.
100 Canal Pointe Boulevard
Princeton, New Jersey 08540

ERM, Inc. File #780-05

Ref. No. 22 p. 1

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I.	Response to Deficiency Letter From J. Defina of the NJDEP Dated 7/25/89	2
	Part 1 - Soils	2
	Part 2 - Ground Water	6
	Part 3 - Requirements for Immediate Source Control of Seep Areas	9
II.	Response to Report of Inspection by S.E. Maybury (5/22/89)	10
	List of Tables follows page:	12
	List of Attachments follows tables.	

Ref. No. 22 p. 2

Response to [illegible] (7/25/89) [illegible] (5/22/89)

Submitted 9/25/89

INTRODUCTION

This Response Document was prepared to address a letter dated 7/25/89 from John Defina of the NJDEP, which outlined deficiencies in the Site Evaluation Submission (SES) dated 1/31/89, and to address the deficiencies raised by ECRA case manager Steve Maybury in his Inspection Report received 7/26/89.

The SES was generated to fulfill the requirements of NJDEP's ECRA program for the Essex Chemical Corporation, Sayreville Borough facility (the Facility), in Sayreville, New Jersey. The Site Inspection was conducted on 5/22/89, prior to completion by NJDEP of its review of the SES.

The 7/25/89 letter from John Defina of the NJDEP requested that Essex provide additional documentation to support the SES, and an amended sampling plan. The additional documentation is provided in Attachments 3 through 17. The amended sampling plan is outlined in Table 2, and all sampling locations are plotted on a revised site map (Attachment 2). A summary of existing sampling is provided in Table 1.

Ref. NO. 22 p.3

I. RESPONSE TO DEFICENCY LETTER FROM J. DEFINA OF THE NJDEP DATED 7/25/89

Part 1 - Soils

1. A. Laboratory deliverables including information on sample locations and sampling parameters will be provided for all sampling conducted.

B. Three soil samples adjacent to the tank farm area were taken and analyzed as part of a preliminary soil sample analysis (see Attachment 3 samples P-2, P-3, and P-4). The analyses performed (Total Petroleum Hydrocarbons (TPH), Volatile Organic Compounds + 15 tentatively identified compounds (VO+15), and Base/Neutral-Extractable Organic Compounds + 15 tentatively identified compounds (BN+15)), were sufficient to identify all materials stored in the tank farm (see Table 3). The rationale for the choice of analytical parameters, and the results of the analyses, are presented in Attachment 3.

No target VO+15 compounds (sample P-3) or BN+15 compounds (sample P-2 and P-4) were detected (see Attachment 3, Table 4-2). The analysis of soil samples P-2 and P-4 indicates the presence of hydrocarbon contamination in unpaved areas west and east of the tank farm. We have recommended additional sampling to further delineate the extent of hydrocarbon contamination in these areas (see Attachment 2 and Table 2).

C. Construction details of the Tank Farm area are provided in Attachment 5. A summary of storage tank contents, capacity, and status is provided in Table 3. The Tank Farm area was constructed in late 1981 and activated in early 1982. It was originally designed to contain twelve (12) storage tanks, but only ten (10) tanks were installed. It has secondary containment, which includes a reinforced concrete wall and concrete diked floor. Currently, seven (7) above ground tanks are in use.

No specific documentation regarding the decommissioning of the inactive tanks is available. When a tank was taken out of service, the material inside was removed, and any residues were disposed of properly by the Facility.

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2. The initial SES recommended two sediment samples (S-1 and S-2) and one water sample (W-1) from two spill prevention/sewer drains. As part of the SSP, four (4) additional sediment samples (SS-3 through SS-6) and five additional water samples (SW-2 through SW-6) will be taken from four additional spill prevention/sewer drains. This additional sampling and analysis will provide a more complete evaluation of on-site contaminants which could exit the property through the storm sewer system.

All samples will be analyzed for VO+15, BN+15, and TPH. This suite of analyses should identify any material that is currently stored, or was previously stored, in the hazardous substance storage areas (see Table 2).

3. The results of the post excavation sampling program with appropriate laboratory deliverables for the stained soil areas, and the rational for targeted analytical parameters and proposed follow up sampling are presented in Attachment 3.

4. A. A separate work plan has been generated to remediate the spill and leakage of bis (2-ethylhexyl) phthalate from the former under ground storage tank (UGST) area (see Attachment 4). Construction details of the former UGST area and documentation concerning the 1978 spill and leakage is provided in Attachment 6.

B. The proposed sampling locations were chosen in order to delineate the current source area of the bis (2-ethylhexyl) phthalate. The current source area of bis (2-ethylhexyl) phthalate is believed to be between the northwest corner of the former UGST area, and the seep area along Burt's Creek. The prediction of the location of the source area is based on knowledge of the original release point of the contaminant (see Attachment 6), local hydrologic conditions (see Attachment 11), direct observation of the contaminant, and indirect geophysical evidence.

The spill and leakage of bis (2-ethylhexyl) phthalate occurred from tanks located on the west side of the former UGST farm. Ground water contour maps of both the deep and shallow aquifers (see Attachment 11) indicate that the ground water flow direction in both aquifers in the former UGST farm area is

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toward the southwest. Any material that is less dense than water and was leaked or spilled from the former UGST area would be expected to migrate to the northwest, on top of the water table, toward Burt's Creek. The location of the suspected bis (2-ethylhexyl) phthalate seep (see Attachment 2) is therefore consistent with local hydrological conditions.

In a 1983 geophysical survey, Woodward-Clyde Consultants[1] concluded that an area of subsurface contamination, interpreted from an area of depressed conductivity, exists northwest of the former UGST area. This data suggests that a contaminant plume may be migrating from an unidentified source area northwest of the former UGST area.

C. Although there is documentation on the removal of all tanks in the UGST area (see SES, Attachment 13), no documentation is available certifying that this area is free of contamination. Therefore, a test boring (SS-9) will be installeded to determine whether the backfill material and the underlying undisturbed soil is free of contamination. This boring will be located as close as possible to the former location of UGST #101, the tank which contained bis (2-ethylhexyl) phthalate, and is known to have leaked (see Attachment 4).

A soil sample will be collected from backfill material at a depth of 1'-2' and at a depth of 6', or immediately below the former UGST excavation. Backfill material and soil from the test boring will be analyzed for BN+15, VO+15, and TPH.

5. The enclosed site map (see Attachment 2) is a revised version of Attachment 7 in the original SES. The site map depicts all areas of environmental concern (AEC) and all previous and proposed sample locations.

6. All available results and appropriate laboratory deliverables for sampling conducted to date are provided in Attachments 3 and 8.

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[1]Woodward-Clyde Consultants, 1983, Results of Geophysical Survey, Essex Chemical Corporation Specialty Chemicals Facility, Sayreville, New Jersey, Project #82C4502A

Ref. No. 22 p. 6

7. All historical drum/tank hazardous waste or substance storage areas, with available documentation, are discussed below. The location of all hazardous waste or substance storage areas is shown on Attachment 2, and the contents, capacity, and status of all storage tanks on site are listed in Table 3.

a. Existing Tank Farm
Information on the existing Tank Farm is provided in Item #1C.

b. Former UGST Farm
Information on the existing UGST farm is provided in Item #4A

c. Raw Materials Storage
   i. Hot Melt Raw Materials Storage Area
   ii. Infern-o-therm Hot Melt Product Storage Area.
   iii. Raw Materials Storage Area

The raw material storage areas are used to store raw materials which are used in the manufacturing process. Each of these areas consist of one or more tanks located within a diked containment area constructed of reinforced concrete. A 1981 blueprint (see Attachment 7) documents the existence of these storage areas, and Table 3 lists the contents of each tank.

d. Former Plasticizer Storage Area
The former plasticizer storage area was used to store raw materials similar to the materials presently being stored in the Tank Farm. A 1981 blueprint (see Attachment 7) documents the existence of this storage area, and Table 3 lists the contents of each tank. The former plasticizer storage area was removed in 1982.

e. Hazardous Waste Drum Storage Area
The hazardous drum storage area is used to store hazardous waste generated from Facility operations. The materials are stored within a diked, reinforced concrete containment area with a locked chain-link fence. A copy of the NJDEP Hazardous Waste Generator Annual Report for 1987 is provided in Attachment 5 of the SES.

Ref. No. 22 p. 7

f. Empty Drum Storage Area

The empty drum storage area is used to temporarily store empty drums which contained raw materials used in the manufacturing process. The empty drums are stored on wooden pallets on a paved area along the west side of the Facility. A surface sample (SS-8) will be collected from this area and analyzed for BN+15, VO+15, and TPH.

8. A generalized paving history of the Essex Sayreville facility can be reconstructed from aerial photos, documents, and maps (see Attachment 9). The Sayreville Borough facility site was unused woods and brush prior to 1965 (see 4/3/59 aerial photo). A 1964 soil and foundation investigation by Woodward-Clyde-Sherard and Associates describes the site as partially wooded and partially covered with woods and grass (see Attachment 14).

The building and most existing paving was completed by 1965 (see 2/7/69 and 3/26/76 aerial photos). In 1983, new concrete pavement with a storm water run-off system was constructed along the northeast corner of the manufacturing building (see Attachments 3 and 9).

9. As mentioned in Item #8, aerial photos indicated that the Sayreville Borough facility site was unused woods and brush prior to 4/3/59. There is no evidence, and no recollection by facility officials, of this site having any previous commercial or industrial uses.

ERM reviewed regional industry directories and the local telephone directory and could find no mention of the Such Clay Company. Based on this review, there is no evidence available to suggest that Such Clay Company is in existance in this area.

Part 2 - Ground Water

10. A copy of all boring logs for existing ground water wells on site is provided in Attachment 10. Monitoring Well Certification - Form A-As-Built Certification forms were not available, so a new well form was filled out for each well to provide as much information as possible.

Ref. No. 22 p. 8

11. Ground water contour maps of the shallow and deep aquifers are provided in Attachment 11.

12. All available laboratory analytical data for ground water sampling conducted to date is provided in Attachment 8.

13. A well search was performed by the NJDEP Bureau of Water Allocation to identify existing wells within a one half mile radius of the Facility. Information on these wells, and a USGS topographic map with the well locations plotted, are provided in Attachment 12.

Local agencies were also contacted. According to Jay Kwiecinski of the Sayreville Health Department and Richard Spilatore of the Middlesex County Health Department there are no records of additional ground water wells within one half mile of the Facility.

14. All available soil boring and well logs are provided in Attachments 13 and 10, and a summary of data pertaining to the clay layer is provided in Table 4.

All available historical information suggests that no on-site structure penetrated the clay layer. One purpose of the 1964 pre-construction soil and foundation study by Woodward-Clyde-Sherard & Associates was to determine the depth of foundations for the Facility buildings and UGST farm (see Attachment 14). This report mentions that prior to the construction of the Facility buildings, two to seven feet of fill needed to be added (after stripping of topsoil) to support the shallow spread foundation footings. Thus, there is no evidence that any deep excavation was necessary for Facility building foundations.

The UGSTs were not deeply buried. The gravel pad beneath the UGST inverts was installed at a depth of 25' above sea level, or less than 6' below ground level (see Attachment 6). The top of the clay layer is 23' above sea level or deeper at all boring locations (see Table 4). Thus, it is unlikely that installation of the UGST farm required excavation into the clay layer.

The oil/water separator was installed at the former location of UGSTs #101 and #104 (see Attachment 2). The sand pad beneath the oil/water separator was installed at a depth of about 8' to 10' below ground level based on technical specifications

Ref. No. 20 p. 9

and photographs of the oil/water separator installation (see Attachment 15). The ground elevation at this location is about 30' above sea level, therefore, the base of the oil/water separator excavation was probably about 20' to 22' above sea level. The top of the clay layer at this location is about 17' above sea level (see appendix 14, boring #2). Thus, it is unlikely that installation of the oil/water separator required excavation into the clay layer.

15. The installation and sampling of on-site monitoring wells will be performed as requested.

A. The monitoring well proposed at the drum storage area (SMW-2S) will be situated immediately downgradient (west) of the pad.

B. A shallow monitoring well (SMW-3S) will be drilled downgradient (west) of the tank farm. The ground water will be sampled and analyzed for VO+15, BN+15, and TPH.

C. A deep monitoring well (SMW-107D) will be drilled near the location of the shallow well OW-107S. The ground water will be sampled and analyzed for VO+15, BN+15, and TPH.

D. A shallow monitoring well (SMW-4S) will be drilled immediately downgradient from the soil staining across from the castible urethane doorway. The ground water will be sampled and analyzed for VO+15, BN+15, TPH, which will be sufficent analyses to detect potential hazardous substance contamination in this area.

16. Essex will reserve judgement on the need for delineation of suspected ground water contamination off site until after the sampling and analysis recommended in Table 2 are completed and evaluated. As part of this recommended work, a water sample from all existing and new ground water monitoring wells, and a water sample from several points along Burt's Creek, will be analyzed for VO+15, BN+15, and TPH. (Note: Ground water monitoring wells OW-1S and OW-1D were unintentionally destroyed, and will be replaced by new wells at the same depth and location.) Completion of the work recommended in Table 2 will enable us to: pinpoint any source area(s) of possible ground water contaminants, begin to remediate these potential source areas, and develop a comprehensive plan to prevent off-site

Ref. No. 22 p. 10

migration of any identified contaminants, should such be the case.

17. Essex has begun to investigate options for the disposal of contaminated ground water. As part of the work plan for remediation of the bis (2-ethylhexyl) phthalate seep area, the facility has proposed to discharge ground water from the proposed recovery well into the on-site oil/water separator. The oil/water separator would collect any free phase product present in the ground water. The treated water would then be discharged into the Middlesex County Sanitary Sewer System. Essex has proposed this ground water disposal plan to the Middlesex County Utility Authority (see Attachment 16), and is currently awaiting a reply.

Part 3 - Requirements For Immediate Source Control of Seep Areas

18. At the request of Essex, ERM has developed a work plan for remediation of the bis (2-ethylhexyl) phthalate seep area (see Attachment 4).

Ref. No. 22 P. 11

II. RESPONSE TO THE REPORT OF INSPECTION BY S. E. MAYBURY (5/22/89)

1. ERM's Health and Safety group is currently performing an asbestos assessment of the Facility (see Attachment 17). A full report will be provided when the assessment and any follow-up remediation work are completed.

2. The drain pipe which receives steam condensate outside of the "hot box" area discharges into the storm water sewer system (see Attachment 9).

3. Construction details of the oil/water separator are provided in Attachment 15. The oil/water separator was installed in 1983 and was designed to receive runoff water from storm drains located along the east side of the facility. The oil/water separator collects any free-phase oil present in the storm water. Any oil that is collected is cleaned out and disposed of on a regular basis. The clean ground water is then discharged into the Middlesex County Utility Authority Sanitary Sewer System.

The manufacturer of the oil/water separator, McTighe Industries of Mitchell SD, was contacted to discuss integrity testing of the unit. A spokesman for the manufacturer stated that the unit is equipped with a cathodic protection system which is designed to provide 20 years of corrosion protection. Given the protection system in place and the short time that the unit has been in operation (less than 7 years), no integrity testing is warranted at this time.

4. The pipe exiting the permapol tank area receives steam condensate. According to Facility officials, this drain pipe discharges pure steam condensate directly into the ground, where the water infiltrates into the soil.

5. All available information regarding the history, use, location, and decommissioning details of all past and current chemical storage areas is discussed in the response to Part 1.

Ref. No. 22 p. 12

Item #7 of the Deficiency Letter from John Defina (see Part 1, Item #7 of this report).

6. The black stained soil located along the eastern fence line is of uncertain origin. It is located adjacent to an area used to temporarily store empty drums which contained raw materials used in the manufacturing process. A soil sample (SS-8) will be collected from this location and analyzed for BN+15, VO+15, and TPH.

7. The filter burn area was where metal filters used in the manufacturing process were cleaned of urethane sealant (bis (2-ethylhexyl) phthalate or di-isodecyl phthalate) by burning the sealant. After the sealant on the filters was burned, the filters were returned to use. This filter cleaning method is no longer in use. The black staining in the filter burn area is believed to be residual carbon staining from the filter burning process. A surface sediment sample (SS-7) will be collected from this location and analyzed for BN+15 to determine if any residual phthalate contamination is present.

8. The results of the post excavation sampling for the stained soil area west of the hazardous waste storage area, and proposed follow-up sampling, are provided in Attachment 3. The soil sample (P-2) collected from this area contained 1460 mg/kg TPH, thought to be derived from runoff from adjacent paved areas which were used for vehicle parking.

During mid-May, 1989, after sampling at the stained soil area was completed, clean gravel was added and the entire unpaved area was graded. Grading was performed to restore the area to its original condition, not as an attempt to mask potential environmental problems. The proposed sampling plan for this area (see Attachment 3) includes seven additional soil samples that will be analyzed for TPH. This additional sampling and analysis will allow us to determine whether there is additional soil contamination in this area that would warrant a soil excavation program.

The white material observed in the soil stained area is calcium chloride that was stored in this area and used during the winter for melting snow. The calcium chloride was inadvertently spread out during the grading process.

9. All available information regarding the construction details, past leaks or spills, and current integrity of the containment systems of the hazardous waste storage and tank farm areas are discussed in item #7 of the Deficiency Letter response.

10. The Kneader Extruder Hot Oil Heater is used to heat Heavy Naphenic Oil used in the manufacturing process. The stain in this area may have been caused by oil used in the operation of this equipment. A soil sample (SS-10) will be collected from this location and analyzed for TPH.

11. The transformer on-site is owned by Jersey Central Power & Light (JCP&L). Based on a visual inspection by ERM, the transformer appears to be in good physical condition, with no evidence of contamination or leaking.

In a telephone conversation with JCP&L, ERM requested information about this transformer. According to a JCP&L Environmental Affairs Officer, the transformer is filled with mineral oil with the potential for 50-500 PPM PCB contamination. Written conformation from JCP&L on the status of the transformer is pending, and will be provided shortly.

12. Information on the paving history of the site is provided in Item #8 of the Deficiency Letter response.

13. The hole in the bank of Burt's Creek is the former NJPDES eight inch storm sewer line discharge point #001. This storm sewer line was taken out of service and sealed with concrete in late 1983/early 1984 after new pavement and a new storm drain system were installed (see Attachment 9). A creek bank sediment sample (SS-12) will be collected from this location and analyzed for BN+15, VO+15, and TPH.

14. The former NJPDES discharge locations are identified on the attached site map (Attachment 2).

15. The fine metallic-like powder was determined to be metal shavings from a temporary pipe cutting and threading operation.

Ref. No. 22 p. 14

TABLES

1. Summary of Existing Sampling
2. Amended Sampling Plan
3. Hazardous substance/waste storage areas, storage tank contents, capacity, and status
4. Summary of clay layer data from soil borings and well logs

TABLE 1

SUMMARY OF EXISTING SAMPLING
ESSEX SPECIALITY PRODUCTS, INC.
SAYREVILLE, NEW JERSEY

Location	Sample Location	Matrix	Sample Depths	Analytical Parameters	Remarks
A. EXISTING GROUND WATER MONITORING WELLS, GROUND WATER ANALYSIS				See remarks	See Attachment 8 for analytical parameters and results
UGST Area	OW-1S	Water	Upper Aquifer		
UGST Area	OW-1D	Water	Lower Aquifer		
Burt's Creek Area	OW-2S	Water	Upper Aquifer		
Burt's Creek Area	OW-3S	Water	Upper Aquifer		
Burt's Creek Area	OW-3D	Water	Lower Aquifer		
Burt's Creek Area	OW-4S	Water	Upper Aquifer		
Burt's Creek Area	OW-4D	Water	Lower Aquifer		
UGST Area	OW-106S	Water	Upper Aquifer		
UGST Area	OW-106D	Water	Lower Aquifer		
UGST Area	OW-107S	Water	Upper Aquifer		
Burt's Creek Area	OW-111S	Water	Upper Aquifer		
Burt's Creek Area	OW-111D	Water	Lower Aquifer		
B. SOIL BORINGS AND WATER SAMPLE ANALYSIS PERFORMED BY ESSEX SPECIALITY PRODUCTS, INC.					Limited sampling documentation. See Attachment 12 of the original Site Evaluation Submission for sample locations and analytical results.
Tank Farm	A	Soil	0-10'	Toluene, MEK, Plasticizers	
Tank Farm	B	Soil	0-2'	Toluene, MEK, Plasticizers	
Tank Farm	B1	Soil	0-10'6"	Toluene, MEK, Plasticizers	
UGST Area	C	Soil	0-5'	Toluene, MEK, Plasticizers	
UGST Area	D	Soil	0 8'	Toluene, MEK, Plasticizers	
UGST Area	E	Soil	0-8'	Toluene, MEK, Plasticizers	
Burt's Creek Area	F	Soil	0 4'	Toluene, MEK, Plasticizers	
Burt's Creek Area	G	Soil	0 8'	Toluene, MEK, Plasticizers	
Burt's Creek Area	Q	Water		Toluene, MEK, Plasticizers	
Wooded Area	R	Water		Toluene, MEK, Plasticizers	
Tank Farm	S	Water		Toluene, MEK, Plasticizers	
Trench?	T	Water		Toluene, MEK, Plasticizers	
C. PRELIMINARY ("AT RISK") SOIL SAMPLE ANALYSIS PERFORMED BY ERM INC.					Sample analysis and recommended follow up sampling are presented in Attachment 3
West Side Of Manufacturing Building	P-1	Soil	1'-2'	TPH, BN+15	

Ref. No. 22 P. 16

TABLE 1

SUMMARY OF EXISTING SAMPLING
ESSEX SPECIALITY PRODUCTS, INC.
SAYREVILLE, NEW JERSEY

Location	Sample Location	Matrix	Sample Depths	Analytical Parameters	Remarks
West Side of Drum Storage Area	P-2	Soil	0-1'	TPH, BN+15	
Northwest Corner of Tank Farm	P-3	Soil	0-.5'	TPH, VO+15, BN+15	
Southeast Area Along Fence	P-4	Soil	0-.5'	TPH, BN+15	

Ref. No. 88 P. 17

TABLE 2

SUMMARY OF RECOMMENDED SAMPLING
ESSEX SPECIALITY PRODUCTS, INC.
SAYREVILLE, NEW JERSEY

Location	Sample Location	Matrix	Sample Depths	Analytical Parameters	Remarks
A. ORIGINAL SITE EVALUATION SUBMISSION					
1. Existing Ground Water Monitoring Well Sampling					
UGST Area	OW-1S	Water	Upper Aquifer	VO+15, BN+15, TPH	
UGST Area	OW-1D	Water	Lower Aquifer	VO+15, BN+15, TPH	
Burt's Creek Area	OW-2S	Water	Upper Aquifer	VO+15, BN+15, TPH	
Burt's Creek Area	OW-3S	Water	Upper Aquifer	VO+15, BN+15, TPH	
Burt's Creek Area	OW-3D	Water	Lower Aquifer	VO+15, BN+15, TPH	
Burt's Creek Area	OW-4S	Water	Upper Aquifer	VO+15, BN+15, TPH	
Burt's Creek Area	OW-4D	Water	Lower Aquifer	VO+15, BN+15, TPH	
UGST Area	OW-106S	Water	Upper Aquifer	VO+15, BN+15, TPH	
UGST Area	OW-106D	Water	Lower Aquifer	VO+15, BN+15, TPH	
UGST Area	OW-107S	Water	Upper Aquifer	VO+15, BN+15, TPH	
Burt's Creek Area	OW-111S	Water	Upper Aquifer	VO+15, BN+15, TPH	
Burt's Creek Area	OW-111D	Water	Lower Aquifer	VO+15, BN+15, TPH	
2. Proposed Ground Water Monitoring Well Sampling					
East of Tank Farm	MW-1S	Water	Upper Aquifer	VO+15, BN+15, TPH	Formerly designated M-1
East of Tank Farm	MW-1D	Water	Lower Aquifer	VO+15, BN+15, TPH	Formerly designated M-2
West of Tank Farm	MW-2S	Water	Upper Aquifer	VO+15, BN+15, TPH	Formerly designated M-3
3. Proposed Sewer Drain Water Sampling					
SW Sewer Drain	W-1	Water	Surface	VO+15, BN+15, TPH	Water samples to be collected where possible. Sewer drains only occasionally contain water.
4. Proposed Soil/Sediment Sampling					
SW Sewer Drain	S-1	Sediment	Surface	VO+15, BN+15, TPH	
NE Sewer Drain	S-2	Sediment	Surface	VO+15, BN+15, TPH	
Burt's Creek	S-19	Creek Sediment	Surface	VO+15, BN+15, TPH	
Burt's Creek	S-20	Creek Sediment	Surface	VO+15, BN+15, TPH	
Burt's Creek	S-21	Creek Sediment	Surface	VO+15, BN+15, TPH	
Burt's Creek	S-22	Creek Sediment	Surface	VO+15, BN+15, TPH	
Burt's Creek	S-23	Creek Sediment	Surface	VO+15, BN+15, TPH	

Ref. No. 22 p. 18

TABLE 2

SUMMARY OF RECOMMENDED SAMPLING
ESSEX SPECIALITY PRODUCTS, INC.
SAYREVILLE, NEW JERSEY

Location	Sample Location	Matrix	Sample Depths	Analytical Parameters	Remarks
B. FOLLOW UP TO "AT RISK" SAMPLING					
1. Proposed Soil Sampling					
East of Tank Farm	P-10	Soil	0-2', 2'-4'	TPH	
East of Tank Farm	P-11	Soil	0-2'	TPH	
East of Tank Farm	P-12	Soil	0-2'	TPH	
East of Tank Farm	P-13	Soil	0-2'	TPH	
East of Tank Farm	P-14	Soil	0-2', 2'-4'	TPH	
East of Tank Farm	P-15	Soil	0-2', 2'-4'	TPH	
East of Tank Farm	P-16	Soil	0-2'	TPH	
East of Tank Farm	P-17	Soil	0-2'	TPH	
East of Tank Farm	P-18	Soil	0-2'	TPH	
NE of Tank Farm	P-19	Soil	0-2'	TPH	
NE of Tank Farm	P-20	Soil	0-2'	TPH	
NE of Tank Farm	P-21	Soil	0-2', 2'-4'	TPH	
South of Building	P-22	Soil	0-2', 2'-4'	TPH	
South of Building	P-23	Soil	0-2'	TPH	
South of Building	P-24	Soil	0-2'	TPH	
South of Building	P-25	Soil	0-2', 2'-4'	TPH	
South of Building	P-26	Soil	0-2'	TPH	
South of Building	P-27	Soil	0-2'	TPH	
South of Building	P-28	Soil	0-2', 2'-4'	TPH	
C. SEEP AREA REMEDIATION PLAN					
1. Proposed Soil Sampling					
Seep Area	R-1	Soil	See Remarks	BN+15	Soil samples taken at surface and every 1.5 feet to the ground water table
Seep Area	R-2	Soil		BN+15	
Seep Area	R-3	Soil		BN+15	
Seep Area	R-4	Soil		BN+15	
Seep Area	R-5	Soil		BN+15	
Seep Area	R-6	Soil		BN+15	
Seep Area	R-7	Soil		BN+15	
Seep Area	R-8	Soil		BN+15	

Reference No. 22 P. 19

TABLE 2

SUMMARY OF RECOMMENDED SAMPLING
ESSEX SPECIALITY PRODUCTS, INC.
SAYREVILLE, NEW JERSEY

Location	Sample Location	Matrix	Sample Depths	Analytical Parameters	Remarks
2. Proposed Ground/Creek Water Sampling					
Monitoring Wells	RMW-1B	Ground Water		BN+15	Samples will be collected when wells are drilled, and approximately one week later.
Monitoring Wells	RMW-2A	Ground Water		BN+15	
Monitoring Wells	RMW-2B	Ground Water		BN+15	
Burt's Creek	RC-1A	Creek Water	See Remarks	BN+15	Samples will be collected when wells are drilled, and approximately one week later.
Burt's Creek	RC-1B	Creek Water		BN+15	
Burt's Creek	RC-2A	Creek Water		BN+15	
Burt's Creek	RC-2B	Creek Water		BN+15	
D. RESPONSE TO NJDEP DEFICIENCY LETTER (7/25/89), AND REPORT OF INSPECTION (5/22/89)					
1. Supplemental Proposed Ground Water Monitoring Wells					
West of Tank Farm	SMW-3S	Water	Upper Aquifer	VO+15, BN+15, TPH	
West of UGST Area	SMW-107D	Water	Lower Aquifer	VO+15, BN+15, TPH	
Along East Fence	SMW-4S	Water	Upper Aquifer	VO+15, BN+15, TPH	
2. Supplemental Proposed Sewer Drain Water Sampling					
NE Sewer Drain	SW-2	Water	Surface	VO+15, BN+15, TPH	Water samples to be collected where possible. Sewer drains only occasionally contain water.
NE Sewer Drain	SW-3	Water	Surface	VO+15, BN+15, TPH	
NE Sewer Drain	SW-4	Water	Surface	VO+15, BN+15, TPH	
NE Sewer Drain	SW-5	Water	Surface	VO+15, BN+15, TPH	
SE Sewer Drain	SW-6	Water	Surface	VO+15, BN+15, TPH	
3. Supplemental Proposed Soil/Sediment Samples					
NE Sewer Drain	SS-3	Sediment	Surface	VO+15, BN+15, TPH	
NE Sewer Drain	SS-4	Sediment	Surface	VO+15, BN+15, TPH	
NE Sewer Drain	SS-5	Sediment	Surface	VO+15, BN+15, TPH	
SE Sewer Drain	SS-6	Sediment	Surface	VO+15, BN+15, TPH	
"Filter Burn" Area	SS-7	Soil	Surface	BN+15	
"Black Stain" Along East Fence Line	SS-8	Soil	Surface	VO+15, BN+15, TPH	

Ref. No. 22 p. 20

TABLE 2

SUMMARY OF RECOMMENDED SAMPLING
ESSEX SPECIALITY PRODUCTS, INC.
SAYREVILLE, NEW JERSEY

Location	Sample Location	Matrix	Sample Depths	Analytical Parameters	Remarks
UGST Area	SS-9A	Soil	1'-2'	VO+15, BN+15, TPH	
	SS-9A	Soil	6'-7'	VO+15, BN+15, TPH	
Hot Oil Extruder Area	SS-10	Soil	Surface	TPH, BN+15	
Former NJDEPS Discharge Point 001	SS-12	Creek Sediment	Surface	VO+15, BN+15, TPH	

Ref. No. 22 p. 21

TABLE 3

HAZARDOUS SUBSTANCE/WASTE STORAGE AREAS
STORAGE TANK CAPACITY, CONTENTS, AND STATUS
ESSEX SPECIALITY PRODUCTS, INC.
SAYREVILLE, NEW JERSEY

Location	Tank Number	Capacity in Gallons	Contents	Status
Tank Farm	501			Never Installed
	502	10,000	Texanol Isobutyrate (Black Blend)	Not in use
	503	12,500	Pluracol TP440	Active
	504	10,000	Di alkyl Phthalate (Santicizer 711)	Active
	505	10,000	PX 316 Plasticizer	Active
	506	12,500	Di Isodecyl Phthalate (DIDP)	Active
	507	10,000	Mineral Spirits	Not in use
	508	10,000	Acetone	Not in use
	509	12,500	Toluene	Active
	510	10,000	Reclaimed Solvent	Active
	511	10,000	Methyl Ethyl Ketone (MEK)	Active
	512			Never Installed
Hot Melt Storage Area	522	7,500	Heavy Naphenic Oil (Sun Oil)	Not in use
	275	5,000	Heavy Naphenic Oil (Sun Oil)	Removed
	296	10,000	Process Vessel for Polymer	Not in use
Infern-O-Therm	311	20,000	Hot Melt Product	Not in use
Former Plasticizer Storage Area	219	5,000		Not Used - Removed in 1983
	220	5,000	Di alkyl Phthalate (Santicizer 711)	Removed in 1982
	221	5,000	Escoflex Plasticizer 432	Removed in 1982
	245	5,000	Di Isodecyl Phthalate (DIDP)	Removed in 1982
	246	5,000	Di alkyl Phthalate (Santicizer 711)	Removed in 1982

Ref. No. 22 0.22

TABLE 3

HAZARDOUS SUBSTANCE/WASTE STORAGE AREAS
STORAGE TANK CAPACITY, CONTENTS, AND STATUS
ESSEX SPECIALITY PRODUCTS, INC.
SAYREVILLE, NEW JERSEY

Raw Materials Storage Area at Southeast Corner of Warehouse	323	9,500	Polyether Polyol	Active
	324	9,500	Polyether Polyol	Active
	325	6,000	Methyl diphenyl diisocyanate	Active
Former UGST Farm	100	3,000	Toluene	Removed in 1983
	101	3,000	Di-2-Ethylhexyl Phthalate (DOP)	Removed in 1983
	102	3,000	Di-2-Ethylhexyl Phthalate (DOP)	Removed in 1983
	103	3,000	Di Isodecyl Phthalate (DIDP)	Removed in 1983
	104	3,000	Di Isodecyl Phthalate (DIDP)	Removed in 1983
	105	3,000	Reclaimed Solvent	Removed in 1983
	106	3,000	Xylene	Removed in 1983
	107	3,000	Reclaimed Solvent	Removed in 1983
	108	5,000	Reclaimed Solvent	Removed in 1983
	109	5,000	Heavy Naphenic Oil (Sun Oil)	Removed in 1983
	110	5,000	Toluene	Removed in 1983
	111	5,000	Heavy Naphenic Oil (Sun Oil)	Removed in 1983
	112	5,000	Reclaimed Solvent	Removed in 1983
	113	7,500	Toluene	Removed in 1983
	114	7,500	Mineral Spirits	Removed in 1983
	115	7,500	Methyl Ethyl Ketone (MEK)	Removed in 1983
	116	1,500	Diesel	Removed in 1983

Ref. No. 22 p.22

TABLE 4

SUMMARY OF CLAY LAYER DATA FROM SOIL BORINGS AND WELL LOGS
ESSEX SPECIALITY PRODUCTS, INC.
SAYREVILLE, NEW JERSEY

Boring Location	Total Depth	Top of Clay (measured depth in feet/feet above sea level)	Base of Clay (measured depth in feet/feet above sea level)	Clay Thickness	Remarks
1. WOODWARD-CLYDE-SHEPARD AND ASSOCIATES, 9/11/64					
B-1	31.5/-6.5	NO CLAY		0	
B-2	21.5/4.5	9/17	21.5/4.5	>12.5	
B-3	21.5/7.5	17/12	21.5/7.5	>6.5	
B-4	31.5/-4	NO CLAY		0	
B-5	21.5/5	5.5/20	9/16.5	3.5	
B-6	21.5/5	8/22	12.5/17.5	4.5	
B-7	21.5/7	11/16		±3	Thin clay/sand interbeds
B-8	21.5/3.5	10/14	14/11	4	
B-9	16.5/10.5	10/17	14.5/12.5	4.5	
B-10	20/6	NO CLAY		0	
B-13	16.5/9.5	9/16		±2	
2. WOODWARD-CLYDE CONSULTANTS, 2/23/79, 4/20/79					
B-101	23/6	13/16	21/8	8	
B-102	19/10	8.5/20.5	15/14	6.5	
B-103	36/-7	6/23	9/20	3	
B-105	14/12	6/20	7/19	1	
B-104	16/8	7/17	13/11	6	Some sandy interbeds
B-106	14/11	6/19	10.5/14.5	4.5	Some sandy interbeds
B-107	24/4	13/15	24/4	>11	

Ref. No. 220.24

TABLE 4

SUMMARY OF CLAY LAYER DATA FROM SOIL BORINGS AND WELL LOGS
ESSEX SPECIALITY PRODUCTS, INC.
SAYREVILLE, NEW JERSEY

Boring Location	Total Depth	Top of Clay (measured depth in feet/feet above sea level)	Base of Clay	Clay Thickness	Remarks
B-108	36/-6	28/2	30/0	2	
B-109	28/0	19/9		±2	
B-110	36/-9	29/-2	36/-9	7	
B-111	19.5/5	9/15.5	16/8.5	7	
3. WOODWARD-CLYDE CONSULTANTS, 8/31/83					
B-1S	8/21.5				Not deep enough
B-1D	37/-7.5	9/20.5	28/1.5	23	Some sandy interbeds
B-2S	16.5/8.5	13/12	16.5/8.5	3.5	
B-3S	14/10.5				Not deep enough
B-3D	25.5/-1	15.5/9	18/6.5	2.5	
B-4S	22/5				Thin clay beds
B-4D	28/-1				Thin clay beds
4. WOODWARD-CLYDE CONSULTANTS, 2/21/84					
OW-106S	14/12	7/19	11.5/14.5	4.5	
OW-106D	17/11	9/19	14/14	5	
OW-107S	13.5/17	13.5/17			Well TD at top of clay
OW-111S	9.5/17	9.5/17			Well TD at top of clay
OW-111D	20/5	9.5/15.5	17/8	7.5	

Ref. No. 22 p. 25

NJD 002 568 715

ATTACHMENTS

1. Deficiency letter (dated 7/25/89) and Report of Inspection (dated 5/22/89) from NJDEP
2. Site Map
3. Report on Preliminary Soil Sample Analyses at the Sayreville Specialty Products Facility, ECRA Case No. 88904
4. Work plan for Remediation of Seep Area, Essex Sayreville Borough facility
5. Documentation of Tank Farm area
6. Construction details of the former UGST area, and documentation concerning the 1978 spill and leakage of bis (2-ethylhexyl) phthalate.
7. Documentation of Raw Materials Storage Areas
8. September 1988 Monitor Well Sampling and Analytical Results for the Sayreville Facility, IT Corporation Project No. 529042
9. Information on the paving history of Sayreville Borough facility
10. Documentation on existing monitoring wells
11. Ground water contour maps
12. Documentation on wells located within one half mile of the Essex Sayreville site
13. Documentation on soil boring logs
14. Soil and Foundation Investigation, Proposed Sealants and Coatings Plant, Essex Chemical Corporation, Sayreville, New Jersey, 1964, by Woodward-Clyde-Sherard and Associates
15. Documentation on oil/water separator
16. Request to discharge recovered ground water to the Middlesex County Sanitary Sewer System
17. Proposal for asbestos assessment

Ref. No. 22 p. 26

ATTACHMENT 1

DEFICIENCY LETTER ND REPORT OF INSPECTION

Ref. No. 22 p. 27

CN 028
Trenton, N.J. 08625-0028

(609)633-7141

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF HAZARDOUS WASTE MANAGEMENT

Michele M. Putnam
Deputy Director
Hazardous Waste Operations

John J. Trela, Ph.D., Director

Lance R. Miller
Deputy Director
Responsible Party Remedial Action

JUL 25 1989

CERTIFIED MAIL
RETURN RECEIPT REQUESTED
Irwin S. Zonis
Essex Chemical Corporation
1401 Broad Street
Clifton, NJ 07015

Rec'd 7-26-89
ISZ

Dear Mr. Zonis:

RE: Inspection Results, ECRA Case #88904
Essex Specialty Products, Inc.
1 Crossman Road South
Sayreville Boro, Middlesex County

As part of the Environmental Cleanup Responsibility Act review process, the referenced Industrial Establishment was inspected by a representative of this Bureau as indicated in the enclosed Report of Inspection.

Please provide us with the information noted and/or take actions prescribed; our continued work on this project will be dependent upon your compliance with the enclosed requirements. Documentation to verify the completion of required actions must be provided as proof of such compliance and a full description of quantities and costs of any and all removal and disposal activities must be detailed.

In addition, the proposed Sampling Plan provided in the Site Evaluation Submission (SES) dated January 31, 1989 has been reviewed by the NJDEP and has been determined to be inadequate and incomplete.

Essex Specialty Products Inc. shall submit within thirty days upon receipt of this letter an amended Sampling Plan addressing the comments provided in this letter and the attached Site Inspection Report. The Sampling Plan must include all of the requested information or an appropriate proposal to gather the needed information.

Parts A, B, and C of this letter provide the soil sampling, ground water sampling and the respective information deficiencies, and the requirements for an immediate source remediation of a free product seep to Burts Creeks, respectively.

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Ref. No. 22 p. 28

Part 1 - Soils

1. Essex Specialty Products Inc. shall submit the following information regarding the Tank Farm Area and provide appropriate sampling rationale.

   A. Provide laboratory deliverables pursuant to the ECRA Draft Sampling Plan Guide, sampling locations, and parameters for all sampling conducted.

   B. The sampling results and/or proposals to characterize this area must include all known or suspected constituents in all of the tanks. Be advised that targeted parameters are not acceptable to characterize an area or provide clean zone verification unless all contaminants of concern (i.e. tank contents) are verified and documented and the quality assurance and quality control (QA/QC) data verifies the results.

   C. Provide the tank ages, contents, use history, and any decommissioning details regarding all ten above ground tanks including the three unused tanks.

2. Essex Specialty Products Inc. shall provide the rationale and intent for all proposal sampling locations and targeted parameters for the storm drain/floor system. As stated in Item #2 above targeted parameters should not be done for an initial sampling round unless those parameters represent the only contaminants of concern across the site and sufficient documentation is provided. Sediment sampling is recommended for all spill prevention drains.

3. Essex Specialty Products Inc. shall submit the results of all post excavation sample results for the stained soil areas identified in the proposed Sampling Plan with the appropriate laboratory deliverables. Rationale and appropriate documentation must also be provided for the proposed targeting of priority pollutant (PP) volatile organics plus a library search of fifteen highest non-priority pollutants (VO+15) and PP base neutrals (BN)+15 in selected areas.

4. Essex Specialty Products Inc. shall submit the following information regarding the Phthalate spill underground storage tank (UGST) area. This information is required to evaluate the suspected phthalate source and sampling proposal.

   A. Provide further clarification as to the exact location and extent of the 1978 spill and its relation to the historic UGSTs.

   B. Provide rationale for the proposed soil sampling locations as the sampling does not correspond to the tank removal area.

   C. Provide documentation that the area of the former UGSTs is free of contamination and that the backfill material used is certified clean.

D. The stream sediment sampling locations are conditionally acceptable pending the review of all required information.

5. Essex Specialty Products Inc. shall submit one scaled map depicting all areas of environmental concern (AEC) with all previous soil sampling locations. All labeling must be done in accordance with previous map submissions.

6. Essex Specialty Products Inc. shall submit the results and the appropriate laboratory deliverables for all sampling conducted to date.

7. Essex Specialty Products Inc. shall submit documentation of all historical drum/tank hazardous waste or substance storage areas on site.

8. Essex Specialty Products Inc. shall submit a paving history of the site with appropriate maps.

9. Essex Specialty Products Inc. shall submit details of the operation of the Such Clay Company formerly at this site.

Part 2 - Groundwater

10. Essex Specialty Products Inc. shall submit all boring logs and Monitoring Well Certification - Form A-As-Built Certification for all existing wells on site.

11. Essex Specialty Products Inc. shall submit groundwater contour maps of both the deep and shallow aquifers.

12. Essex Specialty Products Inc. shall submit the laboratory analytical data for all groundwater sampling results (i.e. VOC and BN).

13. Essex Specialty Products Inc. must document the source of the well information submitted in the Request for Hydrogeologic Assessment form. If not already done, the NJDEP Bureau of Water Allocation and the local Health Department must be contacted to complete this information. If additional wells exist within one half mile of the site they must be plotted on a USGS topographic map and information regarding the well owners, type of well (i.e domestic, industrial, etc.) depth and construction details must be submitted.

14. Essex Specialty Products Inc. shall provide information and/or propose sampling to determine the continuity, depth, and thickness of the clay layer using well/boring logs. Historical information must also be included to determine whether the clay has been penetrated by on site structures. Information regarding the depth of the oil/water separator and former UGST's inverts relative to the bottom of the clay layer must also be submitted.

Ref. No. 22 p. 30

15. Essex Specialty Products Inc. shall propose installation and sampling of on site monitoring wells as follows:

A. The monitoring well proposed at the drum storage area should be situated immediately downgradient of the pad.

B. A shallow monitoring well shall be proposed downgradient of the tank farm. Analytical parameters should include VO+15, total xylenes, BN+15 and Total Petroleum Hydrocarbons (TPHC).

C. A deep monitoring well shall be proposed at the location of shallow well OW-107S.

D. A shallow monitoring well shall be proposed along the fence, immediately downgradient from the soil staining (observed during the site inspection) across from the castible urethane doorway. This well location will be necessary to assess groundwater quality at that location and provide additional information on groundwater flow. Analytical parameters must include BN+15, VO+15, TPHC, PP metals and total zylenes.

16. Essex Specialty Products Inc. shall submit a proposal for delineation of groundwater contamination off site. Sampling results submitted indicate at or above action level contamination of groundwater with BN's and VOC's in the phthalate seep area with the highest BN contamination near the property boundary.

17. Essex Specialty Products shall begin to investigate the options for disposal of contaminated groundwater and provide documentation as to the progress of the investigation.

<u>Part 3 - Requirements For Immediate Source Control Of Seep Areas.</u>

18. Essex Specialty Products Inc. shall within 30 days of receipt of this letter begin to implement source control of the clear oily seep (phthalate) entering Burts Creek as follows:

A. Install a pumping well above the seep area to remove free product entering the creek. Pumping must commence immediately upon well installation.

B. Conduct appropriate monitoring to demonstrate the removal of free product via the well.

C. Excavate all contaminated soil associated with the seep area and perform appropriate post excavation sampling to document the conditions on site and/or that a clean zone has been reached.

D. Properly contain all waste, classify, and properly store or dispose.

E. Obtain all required permits and comply with all federal, state and local ordinances, laws, and regulations.

F. Provide written notifications to the Department two weeks prior to initiation of fieldwork and submit bimonthly progress reports documenting the progress of the source control.

This document was prepared by the Case Manager, Stephen E. Maybury. Any questions you may have regarding the report should be directed to the Case Manager at (609) 633-7141.

Sincerely,

John Defina, Section Chief
Bureau of Environmental Evaluation
and Cleanup Responsibility Assessment

SEM/cam
enclosure

Ref. No. 22 p.32

REC'D
7-26-89
ISZ

Industrial Site Evaluation Element
Bureau of Environment Evaluation and Cleanup Responsibility Assessment
Environmental Cleanup Responsibility Act

Report of Inspection

ECRA Case #88904 Date of Inspection: 5/22/89
Inspection Category: Initial
Inspector: Stephen E. Mayhury

Industrial Establishment: Essex Specialty Products, Inc.

Location: 1 Crossman Road S., Sayreville Boro, Middlesex County

Individuals Involved: Irwin J. Zonis, Essex Chemical Corp.
Bob Hoffman, Essex Chemical Corp.
Calven J. Bensining, Essex Chemical Corp.
Drew Gould, ERM, Inc.
Joe Hochreiter, ERM, Inc.
Tricia Caliguire, McCarter & English
Jay Kwiecinski, Sayreville Health Dept.
Joe Diemm, Middlesex County Hazardous Material Units
Matthew Fitzgerald, Middlesex County Hazardous Material Units
Elizabeth Opitz, NJDEP/BGWDC

NARRATIVE DESCRIPTION

The site is an 18 acre facility that manufactures automotive products including structural adhesives, sound pads, body sealers, trim adhesives, vibration reduction materials, and strengthening products. The facility also has a small laboratory.

The facility will continue its current operation as the ECRA triggering transaction is the transfer of stock.

Arrived on site at 1050 hrs. The weather was warm and sunny. The site inspection began with a short meeting to discuss the general site conditions. A walk through inspection was then conducted in the interior and exterior of the facility. All areas of concern identified in the site evaluation submission (SES) were observed and discussed during the inspection. It should be noted that as stated by the applicant in the SES, the floor drains in the manufacturing building were observed to be sealed. Left the site at 1425 hrs. Following are the deficiencies noted during the inspection.

DEFICIENCIES NOTED

1. Potential asbestos containing insulation was observed in the building interior and on piping and tanks outside.

2. A steam condensate line located outside the hot box entered an unidentified drain pipe.

Ref. NO. 22 p. 33

3. The construction of the oil/water separator tank is unknown.

4. The use of the copper pipe that exits the wall in the permapol tank area is unknown.

5. The use and decommissioning details of a former tank farm located at the (exterior) corner of the laboratory building and production area was unknown.

6. Black stained soil was observed east of the production and warehouse buildings along the fenceline.

7. An area of concern that was not identified in the site evaluation submission (SES) was described as a filter burn area. This area was observed to have been recently graded and disturbed with earth moving equipment.

8. The stained soil area, identified in the SES, west of the hazardous waste storage area was observed to have been recently disturbed and graded with earth moving equipment. The stain has reportedly been excavated and post-excavation samples have been collected and the results are currently pending. A white material, described by a site representative as road salt, was observed mixed in with the soil.

9. The integrity of the sumps and concrete containment areas at the hazardous waste storage area and tank farm is not documented. One tank in the tank farm containing Satizol 711 was observed to have a deteriorated concrete base below the manway/cleanout. This appears to be as the result of a previous tank leak.

10. A black soil stain and apparently stressed vegetation (grass) was observed downgradient of the Kender Extruder Hot Oil Heater.

11. An electrical transformer, not identified in the (SES), was observed at the west side of the site. There was no sign of leakage or spillage around the unit during the inspection.

12. The history of paving could not be fully described during the site inspection.

13. A small hole in the bank of Burts Creek (north of the Laboratory building) appears to be the location of a former or current discharge point to the creek.

14. The location of the former NJPDES discharge point to Burts Creek is not identified on the appropriate maps in the SES submission.

15. A fine metallic-like powder was observed in a small pile on the stone outside the garage door at the manufacturing building and on the soil in the recently graded area east of the tank farm.

Ref. No. 22 p. 34

ACTIONS REQUIRED ON THE PART OF THE APPLICANT

1. Submit documentation regarding the presence of asbestos insulation materials and determine if the material is friable. Provide an appropriate followup proposal.

2. Submit documentation regarding the unidentified drain pipe that receives steam condensate outside of the "hot box".

3. Submit construction details of the oil water separator. If this information does not adequately document its current integrity, provide an appropriate followup proposal to address this area.

4. Provide clarification regarding the use of the pipe exiting the permapol tank area and provide an appropriate followup proposal.

5. Submit full details regarding the history, use, location, and, when appropriate, the decommissioning details of all past and current chemical storage areas. Submit appropriate maps documenting the above.

6. Submit documentation and full details regarding the source of the black stained soil along the eastern fence line and provide an appropriate proposal for sampling.

7. Submit details documenting all activities at the filter burn area and provide an appropriate sampling proposal.

8. Submit the analytical results of post excavation sampling and provide an appropriate followup proposal regarding the stained soil area west of the hazardous waste storage area. This proposal must include documentation as to the composition of white material observed and take into account the disturbance of this area.

9. Submit documentation regarding the construction details, all past spills or leaks, and the current integrity of the containment systems in the hazardous waste storage and tank farm areas. Provide an appropriate followup proposal.

10. Submit a sampling proposal to address soil staining and a full description and history of the Kender Extruder Hot Oil Heater area.

11. Submit documentation as to the history and presence or absence of PCBs in the electrical transformer on site.

12. Submit documentation and appropriate maps regarding the history of paved areas on site.

13. Determine if the hole in the bank of Burts Creek is a former or current discharge point and provide an appropriate followup proposal.

14. Revise all appropriate mapping to include the former NJPDES discharge location.

Ref. NO. 22 p. 35

15. Submit documentation as to the source and composition of the fine metallic-like powder on site and provide an appropriate followup proposal.

ACTIONS REQUIRED ON THE PART OF BEECRA

1. No further action needed at this time.

Inspector/Case Manager Signature _____

Approved: _____, Supervisor
Bureau of Environmental Evaluation
and Cleanup Responsibility Assessment

Ref. No. 22 p.36

ATTACHMENT 2

SITE MAP

Ref. No. 22 p. 37

ATTACHMENT 3

REPORT ON PRELIMINARY SOIL SAMPLE ANALYSES AT THE SAYREVILLE SPECIALITY PRODUCTS FACILITY, ECRA CASE NO. 83904

Ref. NO. 22 p. 38

PRELIMINARY SOIL SAMPLE ANALYSES AT THE SAYREVILLE SPECIALTY PRODUCTS FACILITY ECRA CASE NO. 88904

14 September 1989

Prepared for:

Essex Chemical Corporation, Inc.
1401 Broad Street
Clifton, New Jersey 07015

Prepared by:

Environmental Resources Management, Inc.
Carnegie Professional Building, Suite 204
100 Canal Pointe Boulevard
Princeton, New Jersey 08540

File #780-05

Ret. No. 22 p. 39

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4-2	Soil Sample Analyses	4-2

ERM

Ref. No. 22 p. 40

SECTION 1

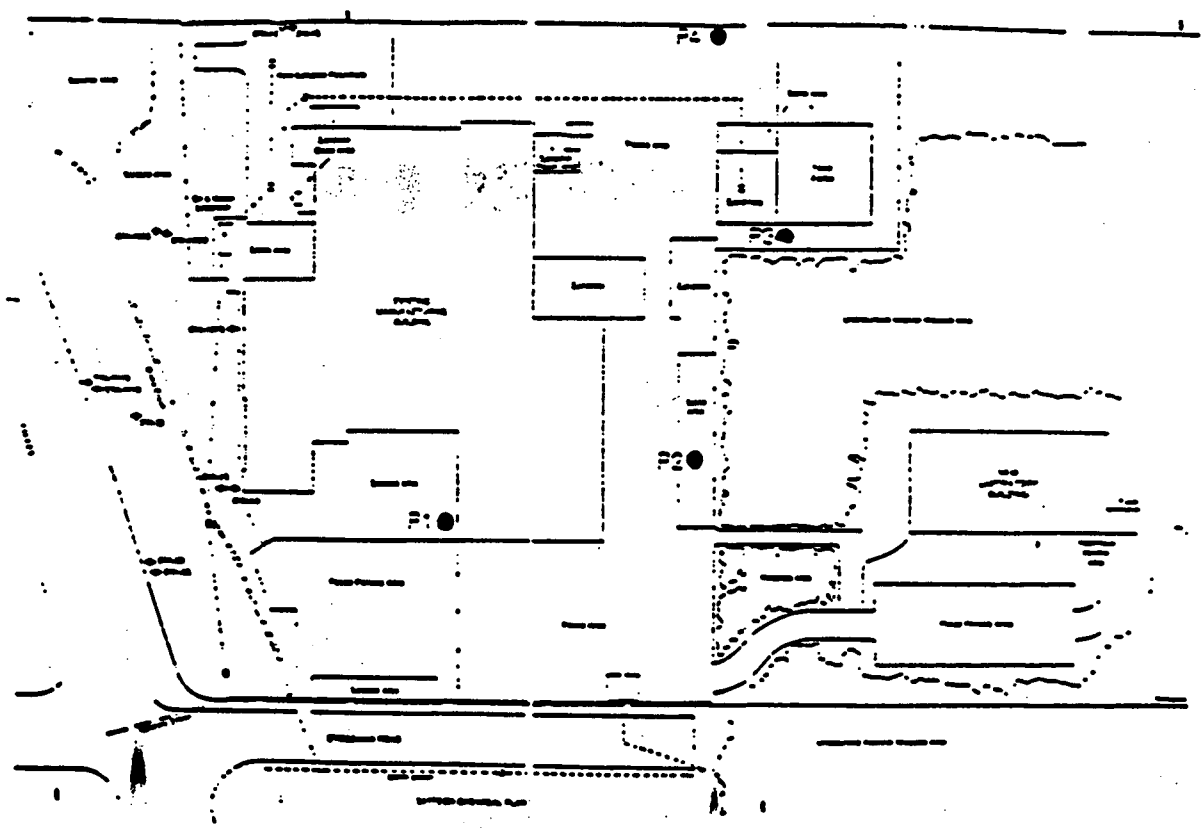
INTRODUCTION

A preliminary soil sampling investigation has been completed at the Sayreville Specialty Products facility, Sayreville, New Jersey. This investigation was performed as "At Risk" sampling that preceded the implementation of a formal ECRA Sampling Plan. A total of four (4) shallow soil samples were collected at key locations within the Essex Chemical Sayreville Specialty Products Facility (see Figure 1-1).

Ref. No. 22 p. 41

FIGURE 1-1

SOIL SAMPLE LOCATION MAP
ESSEX CHEMICAL COMPANY
SAYREVILLE SPECIALTY PRODUCTS
SAYREVILLE, NEW JERSEY



LEGEND:

OW-1 ◇ Existing Monitoring Well

P1 ● Soil Sample Location

Map Not To Scale

Ref. No. 22 p. 42

SECTION 2

BACKGROUND

As discussed at an ECRA review and strategy meeting at McCarter and English's offices on 22 December 1988, ERM proposed collecting and analyzing soil samples at four (4) facility locations where visibly "discolored" soils were observed during previous facility inspections. "Discolored" soils were defined as having unusual coloration (typically dark) or texture. "Discolored" soils were not necessarily thought to be contaminated, but were defined as merely exhibiting an unusual appearance.

At locations indicating significant visual anomalies in the soil, samples were collected and analyzed for targeted chemical parameters. These parameters were selected from chemicals known to be stored, used, or staged in nearby operating areas. Soil samples were integrated over the 0-2 foot depth intervals in order to collect a visually representative "discolored" surface soil sample at each sample location.

The soil samples were analyzed for sample-specific targeted chemical compounds (see Section 4). Tier II quality assurance data packages were provided in order that all of the preliminary soil analyses are in compliance with NJDEP requirements. The Tier II soil sample analysis packages, provided by International Hydronics Corporation, Rocky Hill, NJ, are attached.

Ref. No. 22 p. 43

SECTION 3

SAYREVILLE MANUFACTURING FACILITY SOIL SAMPLES

Soil samples P-1, P-2, P-3 and P-4 were collected from depths ranging from 0-2 feet. These samples were collected on 17 January, 1989 at the locations shown on Figure 1-1.

Soil sample P-1 is located on the western side of the manufacturing building adjacent to an access door leading to the shipping area of the manufacturing facility. Discussions with facility personnel indicated that coffee grounds may have been dumped out this access door accounting for the "discolored" soils.

Soil sample P-2 is located in a narrow strip of unpaved area located in the south, southwest area of the manufacturing facility. The "discolored" soil area was believed to possibly represent hydrocarbon contamination (runoff) left behind from parked cars or trucks which may have used the paved roadway to access staging or storage areas located to the southeast, east or northern areas of the facility.

Soil sample P-3 is located in the northwest corner of the tank farm in an unpaved area located adjacent to the tank farm. The "discolored" soil at this location was sampled in order to identify possible hydrocarbon contamination even though the "discolored" soil more than likely represents accumulated naturally occuring organic matter collected during the ponding of surface water after precipitation.

Soil sample P-4 is located in the southeast area of the facility. The "discolored" soil in this area is located in a narrow wedge-shaped unpaved area where various pieces of unused equipment are stored. The "discolored" area is anticipated to represent residual contamination of unknown origin from the storage of this unused equipment. Soil sample locations P-2 and P-4 showed the most significant coloration or darkening of the soil.

In addition to these four (4) soil samples, one (1) travel blank identified as (P-5) and one (1) equipment rinse blank (P-6) was provided to complete the Tier II Quality Assurance and Quality Control (QA/QC) documentation.

Ref. No. 22 p. 44

SECTION 4

SOIL ANALYSIS

The soils were analyzed for targeted chemical parameters developed for each of the soil sample locations. Table 4-1 lists the sample ID, Depth of Sample, Soil Description, and Analytical Protocol. The master analysis list included Petroleum Hydrocarbons (TPH), Volatile Organic Compounds + Tentatively Identified Compounds (VO +15), and Base/Neutral-Extractable Organic Compounds + Tentatively Identified Compounds (BN+15). Table 4-2 lists the results of the investigation.

TABLE 4-1

Soil Sample ID, Depth, Description and Analytical Protocol

SAMPLE ID	SAMPLE DEPTH (Feet)	SOIL DESCRIPTION	ANALYTICAL PROTOCOL TPH	VO+15	BN+15
P-1	1-2	Dark Brown, Sandy Soil	X		X
P-2	0-1	Dark, Brown, Sandy Soil	X		X
P-3	0-.5	Dark Brown, Sandy Soil	X	X	
P-4	0-.5	Dark, Brown, Sandy Soil	X		X

The above analytical matrixes were chosen in order to categorize soil conditions at all four (4) facility locations. The depth of each soil sample varied in order to collect a representative "discolored" soil sample. The analytical protocol for each soil sample was chosen in order to analyze for those chemical compounds representative of nearby staging, storing or production areas located adjacent to each soil sample location.

The analyses of soil samples P-2 and P-4 indicate the presence of hydrocarbon contamination. Soil sample P-2 had a TPH concentration level of 1460 (mg/kg) and soil sample P-4 a TPH concentration level of 2200 (mg/kg). Hydrocarbon contamination identified at the P-2 location is probably due to hydrocarbon contamination (runoff) left behind from parked cars

Ref. No. 22 p. 45

or trucks. The hydrocarbon contamination identified at the P-4 location is probably due to oils which may have leaked onto the soils from various pieces of unused equipment stored in and around near to this area.

In addition to the hydrocarbon contamination identified at P-2 and P-4, tentatively identified semivolatile organic compounds (TIC's) were also identified at the P-2 and P-4 soil sample locations. The TICs were compared to the semivolatile ion chromatograms found in the laboratory analysis documentation. The TIC compounds are thought to possibly represent a petroleum-based contaminant, such as motor oil. This would be consistent with the historical use of both areas..

Ref. No. 22 p. 46

TABLE 4-2
ESSEX CHEMICAL COMPANY
SAYREVILLE SPECIALTY PRODUCTS FACILITY, SAYREVILLE, NJ
SOIL SAMPLE ANALYSES

ERM Traffic Number	12042	12043	11499	11539
Sample Location	S.1	S.2	S.3	S.4
Sample Date	[illegible]/99	[illegible]/99	[illegible]/99	[illegible]/99
Petroleum Hydrocarbon-mg/kg	ND	1460	ND	2200
Volatile Organic Compounds-µg/kg			ND	
Base/Neutral-Extractables-µg/kg	ND	ND		ND
TENTATIVELY IDENTIFIED SEMIVOLATILE ORGANIC COMPOUNDS				
NON TARGET COMPOUNDS-µg/kg				
Ethyl, methyl benzene isomer		21.45		
Indene isomer		9.72		
Dimethyl, dihydro 1-H Indene isomer		6.51		
Methyl, ethyl 1-dimethyl benzene isomer		9.39		
Benzene, (1-ethyl-2-propenyl)- CAS#019947-22-9		6.38		
Dihydro, dimethyl 1H-Indene isomer		17.16		
Dimethyl, methyl, ethyl benzene isomer		9.03		
Substituted 1H-Indene		60		
Substituted benzene isomer		5.64		
Unknown ketone		7.16		
Thio-butyric acid ester isomer		5.59		
Methyl benzene isomer		6.18		
Long chain alkane				121.27
Substituted long chain alkane				5.32
Substituted alkane				12.7
Long chain hydrocarbon				27.3
Quaterphenyl isomer				6.61
Dihydro, methyl benzene isomer				32.1
Quaterphenyl isomer				13.1
Benzene dicarboxylic acid isomer				87.58
Unknown alkane				21.8
Unknown ketone				25.3
Substituted anthracene				4.76
Unknown				5.72

Note:
ND - None Detected
Petroleum Hydrocarbon Detection Limit-25 mg/kg
Base/Neutral Detection Unit-980ug/kg
Volatile Detection Unit; range 50-500 depending on compound

Ref. No. 22 p. 47

SECTION 5

SUMMARY

The results of the soil analyses for all soil samples (P-1, P-2, P-3, and P-4) detected no target volatile organic compounds or base/neutral-extractable organic compounds. Petroleum hydrocarbon contamination was found in soil sample P-2 at a concentration level of 1460 mg/kg and in P-4 at a concentration level of 2200 mg/kg. In addition to the petroleum hydrocarbon compounds detected in soil samples P-2, and P-4, a significant number of nontarget semivolatile, tentatively identified compounds (TIC) are suspected to be in soil samples P-2 and P-4.

After evaluating the types of tentatively identified compounds (TIC) detected in soil samples P-2 and P-4 and comparing them to the semivolatile ion chromatogram "fingerprint" found in the laboratory analysis documentation, the TIC compounds are probably representative of a petroleum based source.

Ref. No. 22 p. 48

SECTION 6

ADDENDUM TO THE ECRA SAMPLING PLAN

ERM recommends that additional soil samples be collected and analyzed for TPH to further delineate the horizontal extent of the hydrocarbon contamination at the P-2 and P-4 soil sample location areas.

The soil sample points will be located over the "discolored" soil areas and extend beyond each soil sample location (P-2 and P-4) in order to provide accurate coverage in order to determine the horizontal extent of shallow hydrocarbon contamination (see Figure 6-1). The soil samples will be collected from 0-2 foot depth intervals at all soil sample locations and at 2-4 foot depth intervals at approximately three or four soil sample locations at each "discolored" soil area (see Figure 6-1). After the analyses of the soil samples are received from the laboratory we will then recommend that any shallow contaminated soil layer be removed and properly disposed. After the contaminated soil is removed, additional post excavational samples will be collected from strategically located intervals at each excavated area and analyzed for TPH. The post excavational soil sampling and analysis will allow us to determine the presence of any remaining hydrocarbon contamination in the "non discolored" subsoil. "Non discolored" soil indicates soil not having unusual coloration (typically dark) or texture. If hydrocarbon contamination is absent from each excavated area, those areas will be backfilled with clean fill material.

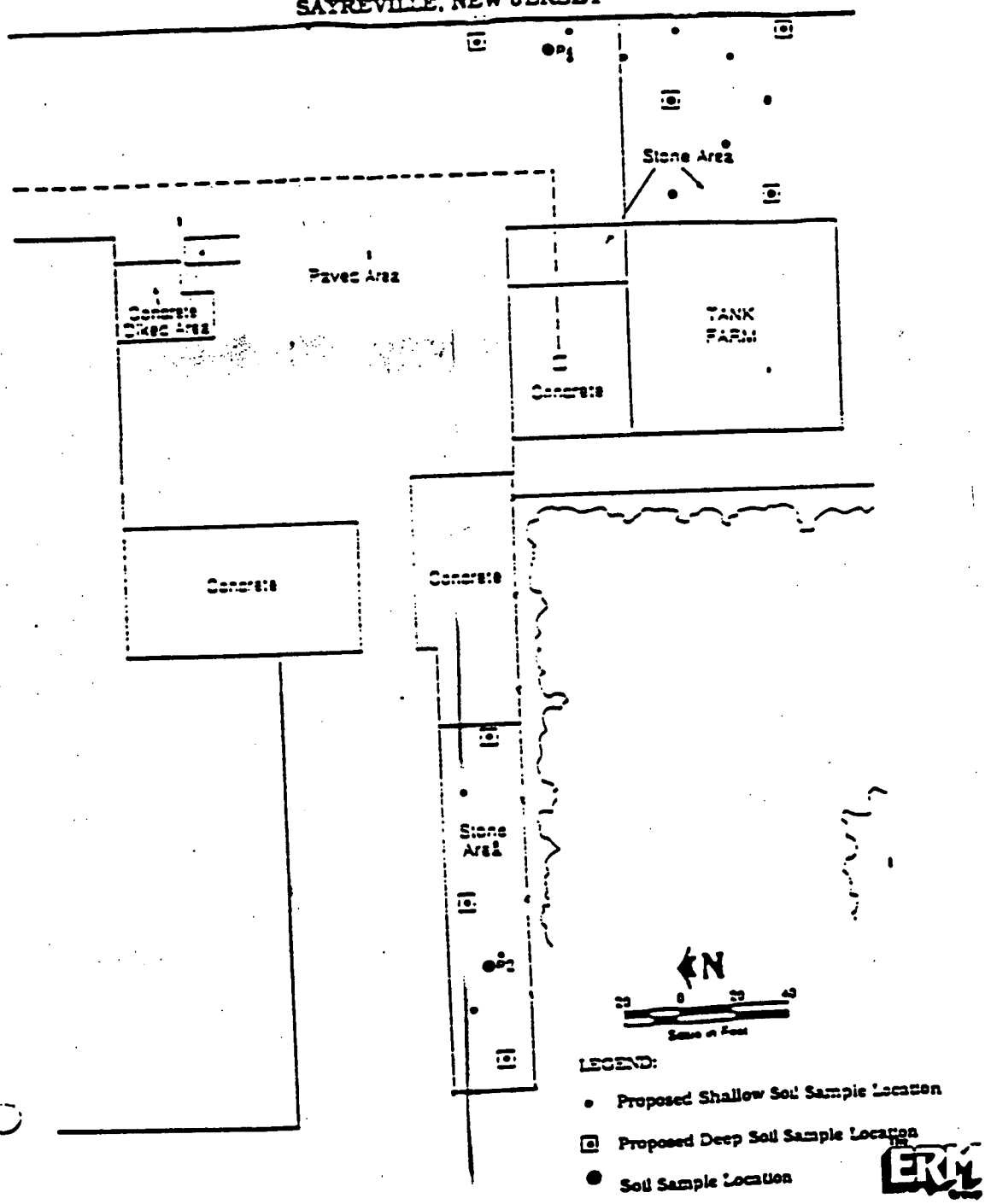
This addendum to the ECRA sampling plan will allow us to address the presence of hydrocarbon contamination in the soil at P-2 and P-4 location area.

We would be pleased to submit a time and cost estimate for this additional scope of work upon request.

Ref. No. 22 p. 49

FIGURE 6-1

PROPOSED SOIL SAMPLE LOCATION MAP
SAYREVILLE SPECIALTY PRODUCTS
SAYREVILLE, NEW JERSEY



Ref: No. 22 p. 50

International Hydronics Corporation
5 Crescent Avenue
P.O. Box 243
Rocky Hill, NJ 08553
Phone: 609-921-9216 Certification No. 18086
Job ID: Dow/ Essex Sayreville

Job No. 89-0045-006

Date: 01/26/89
Page No. 2

* * * LABORATORY ANALYSIS * * *

Sample No. 4

Sample ID: P-4 +15
Sample Date: 01/17/89 Sample Time: 10:15
Log-in Date: 01/17/89 Log-in Time: 12:15 Sample Type: GRAB

Method	Description	MDL	Result	Units	DATE OF ANALYSIS	TIME OF ANALYSIS	ANALYST
209F	Total Solids	1.00	836000	mg/kg	01/25/89	10:00	EB
3540	Pet.Hydrocarbon	25	2200	mg/kg	01/24/89	09:00	EB
8270	Base Neutrals	--	Ext.	--	01/23/89	16:00	MS

Sample No. 5

Sample ID: P-5 +15
Sample Date: 01/17/89 Sample Time: 10:25
Log-in Date: 01/17/89 Log-in Time: 12:15 Sample Type: GRAB

Method	Description	MDL	Result	Units	DATE OF ANALYSIS	TIME OF ANALYSIS	ANALYST
3540	Pet.Hydrocarbon	25	BDL	mg/kg	01/24/89	09:00	EB
8240	Volatiles	--	Run	--	01/22/89	12:09	DDH
8270	Base Neutrals	--	Ext.	--	01/23/89	16:00	MS

Sample No. 6

Sample ID: P-6 +15
Sample Date: 01/17/89 Sample Time: 10:40
Log-in Date: 01/17/89 Log-in Time: 12:15 Sample Type: GRAB

Method	Description	MDL	Result	Units	DATE OF ANALYSIS	TIME OF ANALYSIS	ANALYST
3540	Pet.Hydrocarbon	25	BDL	mg/kg	01/24/89	09:00	EB
8240	Volatiles	--	Run	--	01/22/89	12:09	DDH
8270	Base Neutrals	--	Ext.	--	01/23/89	16:00	MS

By _____

Ref. No. 22 p. 51

INTERNATIONAL HYDRONICS CORP. NJDEP LAB. # 18086

SEMIVOLATILE EXTRACTABLE ORGANICS BY GC/MS

MS Data File: >S2155 IHC Job #: 89-0045-00
Client: ERM
Sample ID: P-1

Sample Matrix: Soil/Solid
Sample Amount: 10.2 g % Solids : 81.5%
Date Run: 01/25/89 Mass Spectroscopist: Deborah Haney

BASE/NEUTRAL COMPOUNDS Detection Limit = 980. ug/kg	AS IS RESULT (ug/kg)	DRY BASIS RESULT (ug/kg)
Acenapthene	BDL	BDL
Acenapthylene	BDL	BDL
Anthracene	BDL	BDL
Azobenzene	BDL	BDL
Benzo(a)anthracene	BDL	BDL
Benzo(b)fluoranthene	BDL	BDL
Benzo(k)fluoranthene	BDL	BDL
Benzo(a)pyrene	BDL	BDL
Benzo(ghi)perylene	BDL	BDL
Benzidine	BDL	BDL
Bis(2-chloroethyl)ether	BDL	BDL
Bis(2-chloroethoxy)methane	BDL	BDL
Bis(2-chloroisopropyl)ether	BDL	BDL
Bis(2-ethylhexyl)phthalate	BDL	BDL
4-Bromophenyl phenyl ether	BDL	BDL
Butyl benzyl phthalate	BDL	BDL
2-Chloronapthalene	BDL	BDL
4-Chlorophenyl phenyl ether	BDL	BDL
Chrysene	BDL	BDL
Dibenzo(a,h)anthracene	BDL	BDL
Di-n-butyl phthalate	BDL	BDL
1,2-Dichlorobenzene	BDL	BDL
1,3-Dichlorobenzene	BDL	BDL
1,4-Dichlorobenzene	BDL	BDL
3,3'-Dichlorobenzidine	BDL	BDL
Diethyl Phthalate	BDL	BDL
Dimethyl Phthalate	BDL	BDL
2,4-Dinitrotoluene	BDL	BDL
2,6-Dinitrotoluene	BDL	BDL
Di-n-octylphthalate	BDL	BDL
Fluoranthene	BDL	BDL
Fluorene	BDL	BDL
Hexachlorobenzene	BDL	BDL
Hexachlorobutadiene	BDL	BDL
Hexachlorocyclopentadiene	BDL	BDL
Hexachloroethane	BDL	BDL
Indeno(1,2,3-cd)pyrene	BDL	BDL
Isophorone	BDL	BDL
Naphthalene	BDL	BDL
Nitrobenzene	BDL	BDL
N-Nitrosodi-n-propylamine	BDL	BDL
Phenanthrene	BDL	BDL
Pyrene	BDL	BDL
1,2,4-Trichlorobenzene	BDL	BDL
o-Xylene	BDL	BDL
m&p-Xylene	BDL	BDL
N-Nitrosodimethylamine	BDL	BDL
N-Nitrosodiphenylamine	BDL	BDL

BASE/NEUTRAL SURROGATE COMPOUND		% RECOVERY
Nitrobenzene-d5	B1	47.4
2-Fluorobiphenyl	B2	48.5
Terphenyl-d14	B3	49.8

Note: BDL = Below Detection Limit

Ref. No. 22 p. 52

INTERNATIONAL HYDRONICS CORP. NJDEP LAB. # 18086

SEMIVOLATILE EXTRACTABLE ORGANICS BY GC/MS

MS Data File: >S2155 IHC Job #: 89-0045-00,
Client: ERM
Sample ID: P-1

Sample Matrix: Soil/Solid
Sample Amount: 10.2 g % Solids : 81.5%
Date Run: 01/25/89 Mass Spectroscopist: Deborah Haney

ACID EXTRACTABLE COMPOUNDS Detection Limit = 980. ug/kg	AS IS RESULT (ug/kg)	DRY BASIS RESULT (ug/kg)
4-Chloro-3-methylphenol	BDL	BDL
2-Chlorophenol	BDL	BDL
2,4-Dichlorophenol	BDL	BDL
2,4-Dimethylphenol	BDL	BDL
2,4-Dinitrophenol	BDL	BDL
2-Methyl-4,6-dinitrophenol	BDL	BDL
2-Nitrophenol	BDL	BDL
4-Nitrophenol	BDL	BDL
Pentachlorophenol	BDL	BDL
Phenol	BDL	BDL
2,4,6-Trichlorophenol	BDL	BDL

ACID EXTRACTABLE SURROGATE COMPOUND		% RECOVERY
2-Fluorophenol	A1	59.5
Phenol-d6	A2	59.5
2,4,6-Tribromophenol	A3	51.0

Note: BDL = Below Detection Limit

Ret. No. 22P.53

NATIONAL
ONICS CORPORATION
BOX [illegible] ROCKY HILL NJ [illegible]
[illegible]

Library Search of Non-Target Compounds on NBS Mass Spectral Data Base

Date: 01-25-89 Rev. 4-27-89 [illegible]
IHL Job #: 89-0043-00
Sample ID: P-1
GS/MS Data File: S2135
Fraction: Semivolatiles
Mass Spectroscopist: Deborah D.Haney

NO.	RRT	Scan #	Compound Name/ CAS Number	Base Peak	% Match	EVAL	Conc. (ug/Kg)
1			NO ADDITIONAL PEAKS IDENTIFIED				
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

Notes: RRT - Relative Ret. Time vs. Phenanthrene-d10

EVAL: RS = Reasonable Identification
ISO = Isomer or Similar Compound
UK = Unknown

Conc: Concentration estimate assumes a response factor of 1.000 vs. phenanthrene-d10.

Ref. No. 22 p. 54

Lechick - threshold = 20. No (+) peaks found.

TIC of DATA:>S21A55A.D 4 integration peaks found. Page 1

Peak#	Rel Time	Type	Width	Area	Start Time	End Time
1	29.616	BV	0.081	187989695	29.448	29.735
2	32.769	BB	0.060	176874880	32.631	33.061
Bulletin 3	33.408	BB	0.044	35202077	33.348	33.587
4	36.970	PB	0.062	96595076	36.738	37.258

Rev. 4-27-89

Ref. No. 22 p. 55

INTERNATIONAL HYDRONICS CORP. NJDEP LAB. # 18086

SEMIVOLATILE EXTRACTABLE ORGANICS BY GC/MS

MS Data File: >S2156 IHC Job #: 89-0045-00
Client: ERM
Sample ID: P-2

Sample Matrix: Soil/Solid
Sample Amount: 10.2 g % Solids : 80.0%
Date Run: 01/25/89 Mass Spectroscopist: Deborah Haney

BASE/NEUTRAL COMPOUNDS Detection Limit = 980. ug/kg	AS IS RESULT (ug/kg)	DRY BASIS RESULT (ug/kg)
Acenapthene	BDL	BDL
Acenapthylene	BDL	BDL
Anthracene	BDL	BDL
Azobenzene	BDL	BDL
Benzo(a)anthracene	BDL	BDL
Benzo(b)fluoranthene	BDL	BDL
Benzo(k)fluoranthene	BDL	BDL
Benzo(a)pyrene	BDL	BDL
Benzo(ghi)perylene	BDL	BDL
Benzidine	BDL	BDL
Bis(2-chloroethyl)ether	BDL	BDL
Bis(2-chloroethoxy)methane	BDL	BDL
Bis(2-chloroisopropyl)ether	BDL	BDL
Bis(2-ethylhexyl)phthalate	BDL	BDL
4-Bromophenyl phenyl ether	BDL	BDL
Butyl benzyl phthalate	BDL	BDL
2-Chloronapthalene	BDL	BDL
4-Chlorophenyl phenyl ether	BDL	BDL
Chrysene	BDL	BDL
Dibenzo(a,h)anthracene	BDL	BDL
Di-n-butyl phthalate	BDL	BDL
1,2-Dichlorobenzene	BDL	BDL
1,3-Dichlorobenzene	BDL	BDL
1,4-Dichlorobenzene	BDL	BDL
3,3'-Dichlorobenzidine	BDL	BDL
Diethyl Phthalate	BDL	BDL
Dimethyl Phthalate	BDL	BDL
2,4-Dinitrotoluene	BDL	BDL
2,6-Dinitrotoluene	BDL	BDL
Di-n-octylphthalate	BDL	BDL
Fluoranthene	BDL	BDL
Fluorene	BDL	BDL
Hexachlorobenzene	BDL	BDL
Hexachlorobutadiene	BDL	BDL
Hexachlorocyclopentadiene	BDL	BDL
Hexachloroethane	BDL	BDL
Indeno(1,2,3-cd)pyrene	BDL	BDL
Isophorone	BDL	BDL
Naphthalene	BDL	BDL
Nitrobenzene	BDL	BDL
N-Nitrosodi-n-propylamine	BDL	BDL
Phenanthrene	BDL	BDL
Pyrene	BDL	BDL
1,2,4-Trichlorobenzene	BDL	BDL
o-Xylene	BDL	BDL
m&p-Xylene	BDL	BDL
N-Nitrosodimethylamine	BDL	BDL
N-Nitrosodiphenylamine	BDL	BDL

BASE/NEUTRAL SURROGATE COMPOUND		% RECOVERY
Nitrobenzene-d5	B1	67.6
2-Fluorobiphenyl	B2	78.4
Terphenyl-d14	B3	62.0

Note: BDL = Below Detection Limit

Ref. No. 22 p. 56

INTERNATIONAL HYDRONICS CORP. NJDEP LAB. # 18086

SEMIVOLATILE EXTRACTABLE ORGANICS BY GC/MS

MS Data File: >S2156 IHC Job #: 89-0045-00
Client: ERM
Sample ID: P-2

Sample Matrix: Soil/Solid
Sample Amount: 10.2 g % Solids : 80.0%
Date Run: 01/25/89 Mass Spectroscopist: Deborah Haney

ACID EXTRACTABLE COMPOUNDS Detection Limit = 980. ug/kg	AS IS RESULT (ug/kg)	DRY BASIS RESULT (ug/kg)
4-Chloro-3-methylphenol	BDL	BDL
2-Chlorophenol	BDL	BDL
2,4-Dichlorophenol	BDL	BDL
2,4-Dimethylphenol	BDL	BDL
2,4-Dinitrophenol	BDL	BDL
2-Methyl-4,6-dinitrophenol	BDL	BDL
2-Nitrophenol	BDL	BDL
4-Nitrophenol	BDL	BDL
Pentachlorophenol	BDL	BDL
Phenol	BDL	BDL
2,4,6-Trichlorophenol	BDL	BDL

ACID EXTRACTABLE SURROGATE COMPOUND		% RECOVERY
2-Fluorophenol	A1	80.0
Phenol-d6	A2	81.5
2,4,6-Tribromophenol	A3	79.5

Note: BDL = Below Detection Limit

Ref. No. 22 p. 57

International
HYDRONICS CORPORATION
PO BOX 243 ROCKY HILL NJ 08553
(609)-921-9216

Library Search of Non-Target Compounds on NBS Mass Spectral Data Base

Date: 01-25-89
IHC Job #: 89-0045-00
Sample ID: P-2
GS/MS Data File: S2156
Fraction: Semivolatiles
Mass Spectroscopist: Deborah D.Haney

NO.	RT	Compound Name/ CAS Number	Base Peak	% Match	EVAL	Conc. (ug/Kg)
1	0.476	Ethyl,methyl benzene isomer	119	99.8	ISO	8.80
2	0.531	Ethyl,methyl benzene isomer	119	99.5	ISO	5.66
3	0.557	Indene isomer	117	99.2	ISO	9.72
4	0.567	Ethyl,methyl benzene isomer	133	82.7	ISO	6.99
5	0.589	Dimethyl,dihydro 1-H Indene isomer	131	98.4	ISO	6.51
.	0.597	Methyl,ethyl-dimethyl benzene isomer	133	86.4	ISO	9.89
7	0.627	Benzene,(1-ethyl-2-propenyl)- CAS#019947-22-9	117	82.1	RS	6.38
8	0.639	Dihydro,dimethyl 1H-Indene isomer	131	99.4	ISO	6.28
9	0.650	Dihydro,dimethyl 1h-Indene isomer	131	96.5	ISO	10.9
10	0.664	Dimethyl,methyl,ethyl benzene isomer	133	90.5	ISO	9.03
11	0.674	Substituted 1H-Indene	145	85.7	ISO	60.0
12	0.680	Substituted benzene isomer	145	91.9	ISO	5.64
13	0.718	Unknown ketone	190	93.1	UK	7.16
14	0.886	Thio-butyric acid ester isomer	71	88.9	ISO	5.59
15	0.927	Methyl benzene isomer	181	81.3	ISO	6.18

Notes: RT = Absolute Retention Time

EVAL: RS = Reasonable Identification
ISO = Isomer or Similar Compound
UK = Unknown

Conc: Concentration estimate assumes a response factor of 1.000 vs. phenanthrene-d10.

PLUM18.doc

Ref. No. 22p 58

International
HYDRONICS CORPORATION
PO BOX 843 ROCKY HILL NJ 08553
(609)-921-9816

Library Search of Non-Target Compounds on NBS Mass Spectral Data Base

Date: 01/25/89
IHC Job #: 89-0045-00
Sample ID: P-2
GS/MS Data File: S2156
Fraction: Semivolatiles
Mass Spectroscopist: Deborah D.Haney

NO.	RRT	Compound Name/ CAS Number	Base Peak	% Match	EVAL	Conc. (ug/Kg)
16	VAR	Peaks #39-99 Long chain hydrocarbon	na	na	na	9230
17		NO ADDITIONAL PEAKS DETECTED				
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

Notes: RRT = Relative Ret. Time vs. Phenanthrene-d10

EVAL: RS = Reasonable Identification
ISO = Isomer or Similar Compound
UK = Unknown

Conc: Concentration estimate assumes a response factor of 1.000 vs. phenanthrene-d10.

PLUM15.doc

Ref. NO. 22 p. 59

INTERNATIONAL HYDRONICS CORP. NJDEP LAB. # 18086

VOLATILE PURGEABLE ORGANICS BY GC/MS

MS Data File: >V2145 IHC Job #: 89-0045-00
Client: ERM
Sample ID: P-3

Sample Matrix: Soil/Solid
Sample Amount: 1.00 g % Solids : 69.3%
Date Run: 01/24/89 Mass Spectroscopist: Deborah Haney

VOLATILE ORGANIC COMPOUNDS	DETECTION LIMIT (ug/kg)	AS IS RESULT (ug/kg)	DRY BASIS RESULT (ug/kg)
Benzene	50	BDL	BDL
Bromodichloromethane	50	BDL	BDL
Bromoform	50	BDL	BDL
Bromomethane	100	BDL	BDL
Carbon Tetrachloride	50	BDL	BDL
Chlorobenzene	50	BDL	BDL
Chloroethane	100	BDL	BDL
2-Chloroethylvinyl ether	500	BDL	BDL
Chloroform	50	BDL	BDL
Chloromethane	100	BDL	BDL
Dibromochloromethane	50	BDL	BDL
1,2-Dichlorobenzene	50	BDL	BDL
1,3-Dichlorobenzene	50	BDL	BDL
1,4-Dichlorobenzene	50	BDL	BDL
1,1-Dichloroethane	50	BDL	BDL
1,2-Dichloroethane	50	BDL	BDL
1,1-Dichloroethylene	50	BDL	BDL
trans-1,2-Dichloroethylene	50	BDL	BDL
1,2-Dichloropropane	50	BDL	BDL
cis-1,3-Dichloropropylene	50	BDL	BDL
trans-1,3-Dichloropropylene	50	BDL	BDL
Ethyl benzene	50	BDL	BDL
Methylene chloride	50	BDL	BDL
1,1,2,2-Tetrachloroethane	50	BDL	BDL
Tetrachloroethylene	50	BDL	BDL
Toluene	50	BDL	BDL
1,1,1-Trichloroethane	50	BDL	BDL
1,1,2-Trichloroethane	50	BDL	BDL
Trichloroethylene	50	BDL	BDL
Trichlorofluoromethane	50	BDL	BDL
Vinyl chloride	100	BDL	BDL
Acrolein	500	BDL	BDL
Acrylonitrile	500	BDL	BDL
o-Xylene	50	BDL	BDL
m&p-Xylene	50	BDL	BDL

VOLATILE SURROGATE COMPOUND		% RECOVERY
1,2-Dichloroethane	V1	96.4
Toluene-d8	V2	85.6
4-Bromofluorobenzene	V3	76.8

Note: BDL = Below Detection Limit

Ref. NO. 22 P. 60

International
HYDRONICS CORPORATION
PO BOX 843 ROCKY HILL NJ 08553
(609)-921-9216

Library Search of Non-Target Compounds on NBS Mass Spectral Data Base

Date: 01/25/89
IHC Job #: 89-0045-00
Sample ID: P-3
GS/MS Data File: V2145
Fraction: Volatiles
Mass Spectroscopist: Deborah D.Haney

NO.	RRT	Scan #	Compound Name/ CAS Number	Base Peak	% Match	EVAL	Conc. (ug/kg)
1			NO ADDITIONAL PEAKS IDENTIFIED				
2							
3							
4							
5							
6							
7							
8							
9							
10							

Notes: RRT = Relative Ret. Time vs. 1,4-Difluorobenzene

EVAL: RS = Reasonable Identification
ISO = Isomer or Similar Compound
UK = Unknown

Conc: Concentration estimate assumes a response factor of 1.000 vs. 1,4-Difluorobenzene

Ref. No. 22 p. 61

INTERNATIONAL HYDRONICS CORP. NJDEP LAB. # 18086

SEMIVOLATILE EXTRACTABLE ORGANICS BY GC/MS

MS Data File: >S2157 IHC Job #: 89-0045-00
Client: ERM
Sample ID: P-4

Sample Matrix: Soil/Solid
Sample Amount: 10.4 g % Solids : 83.6%
Date Run: 01/25/89 Mass Spectroscopist: Deborah Haney

BASE/NEUTRAL COMPOUNDS Detection Limit = 962. ug/kg	AS IS RESULT (ug/kg)	DRY BASIS RESULT (ug/kg)
Acenapthene	BDL	BDL
Acenapthylene	BDL	BDL
Anthracene	BDL	BDL
Azobenzene	BDL	BDL
Benzo(a)anthracene	BDL	BDL
Benzo(b)fluoranthene	BDL	BDL
Benzo(k)fluoranthene	BDL	BDL
Benzo(a)pyrene	BDL	BDL
Benzo(ghi)perylene	BDL	BDL
Benzidine	BDL	BDL
Bis(2-chloroethyl)ether	BDL	BDL
Bis(2-chloroethoxy)methane	BDL	BDL
Bis(2-chloroisopropyl)ether	BDL	BDL
Bis(2-ethylhexyl)phthalate	BDL	BDL
4-Bromophenyl phenyl ether	BDL	BDL
Butyl benzyl phthalate	BDL	BDL
2-Chloronapthalene	BDL	BDL
4-Chlorophenyl phenyl ether	BDL	BDL
Chrysene	BDL	BDL
Dibenzo(a,h)anthracene	BDL	BDL
Di-n-butyl phthalate	BDL	BDL
1,2-Dichlorobenzene	BDL	BDL
1,3-Dichlorobenzene	BDL	BDL
1,4-Dichlorobenzene	BDL	BDL
3,3'-Dichlorobenzidine	BDL	BDL
Diethyl Phthalate	BDL	BDL
Dimethyl Phthalate	BDL	BDL
2,4-Dinitrotoluene	BDL	BDL
2,6-Dinitrotoluene	BDL	BDL
Di-n-octylphthalate	BDL	BDL
Fluoranthene	BDL	BDL
Fluorene	BDL	BDL
Hexachlorobenzene	BDL	BDL
Hexachlorobutadiene	BDL	BDL
Hexachlorocyclopentadiene	BDL	BDL
Hexachloroethane	BDL	BDL
Indeno(1,2,3-cd)pyrene	BDL	BDL
Isophorone	BDL	BDL
Naphthalene	BDL	BDL
Nitrobenzene	BDL	BDL
N-Nitrosodi-n-propylamine	BDL	BDL
Phenanthrene	BDL	BDL
Pyrene	BDL	BDL
1,2,4-Trichlorobenzene	BDL	BDL
o-Xylene	BDL	BDL
m&p-Xylene	BDL	BDL
N-Nitrosodimethylamine	BDL	BDL
N-Nitrosodiphenylamine	BDL	BDL

BASE/NEUTRAL SURROGATE COMPOUND		% RECOVERY
Nitrobenzene-d5	B1	64.6
2-Fluorobiphenyl	B2	67.4
Terphenyl-d14	B3	82.1

Note: BDL = Below Detection Limit

Ref. No. 22 p. 62

INTERNATIONAL HYDRONICS CORP. NJDEP LAB. # 18086

SEMIVOLATILE EXTRACTABLE ORGANICS BY GC/MS

IHC Job #: 89-0045-00

MS Data File: >S2157
Client: ERM
Sample ID: P-4

Sample Matrix: Soil/Solid
Sample Amount: 10.4 g
% Solids : 83.6%
Date Run: 01/25/89
Mass Spectroscopist: Deborah Haney

ACID EXTRACTABLE COMPOUNDS Detection Limit = 962. ug/kg	AS IS RESULT (ug/kg)	DRY BASIS RESULT (ug/kg)
4-Chloro-3-methylphenol	BDL	BDL
2-Chlorophenol	BDL	BDL
2,4-Dichlorophenol	BDL	BDL
2,4-Dimethylphenol	BDL	BDL
2,4-Dinitrophenol	BDL	BDL
2-Methyl-4,6-dinitrophenol	BDL	BDL
2-Nitrophenol	BDL	BDL
4-Nitrophenol	BDL	BDL
Pentachlorophenol	BDL	BDL
Phenol	BDL	BDL
2,4,6-Trichlorophenol	BDL	BDL

ACID EXTRACTABLE SURROGATE COMPOUND		% RECOVERY
2-Fluorophenol	A1	78.5
Phenol-d6	A2	86.0
2,4,6-Tribromophenol	A3	86.5

Note: BDL = Below Detection Limit

Ref. No. 22 p. 63

International
HYDRONICS CORPORATION
PO BOX 845 ROCKY HILL NJ 08553
(609)-921-9214

Library Search of Non-Target Compounds on NBS Mass Spectral Data Base

Date: 01-25-89
IHC Job #: 89-0045-00
Sample ID: P-4
GS/MS Data File: S2157
Fraction: Semivolatiles
Mass Spectroscopist: Deborah D.Haney

NO.	RT	Compound Name/ CAS Number	Base Peak	% Match	EVAL	Conc. (ug/Kg)
1	0.953	Long chain alkane	57	98.6	ISO	5.60
2	0.978	Long chain alkane	43	98.3	ISO	5.53
3	1.075	Long chain alkane	43	99.0	ISO	18.1
4	1.098	Long chain alkane	43	94.8	ISO	9.40
5	1.106	Long chain alkane	57	98.9	ISO	7.23
.	1.149	Long chain alkane	57	97.6	ISO	4.33
7	1.160	Substituted benzene	236	77.6	ISO	4.68
8	1.186	Long chain alkane	57	95.6	ISO	36.2
9	1.235	Substituted long chain alkane	71	94.3	ISO	5.32
10	1.248	Substituted alkane	43	88.3	ISO	4.04
11	1.253	Long chain alkane	57	99.2	ISO	12.7
12	1.287	Long chain hydrocarbon	57	94.9	ISO	27.3
13	1.319	Quaterphenyl isomer	306	97.8	ISO	6.61
14	1.393	Dihydro,methyl benzene isomer	221	84.1	ISO	32.1
15	1.409	Quaterphenyl isomer	306	93.3	ISO	13.1

Notes: RT = Absolute Retention Time

EVAL: RS = Reasonable Identification
ISO = Isomer or Similar Compound
UK = Unknown

Conc: Concentration estimate assumes a response factor of 1.000 vs. phenanthrene-d10.

PLUS15.doc

Ref. No. 22 p. 64

International
HYDRONICS CORPORATION
PO BOX 843 ROCKY HILL NJ 08553
(609)-921-9216

Library Search of Non-Target Compounds on NBS Mass Spectral Data Base

Date: 01/25/89
IHC Job #: 89-0045-00
Sample ID: P-4
GS/MS Data File: S2157
Fraction: Semivolatiles
Mass Spectroscopist: Deborah D.Haney

NO.	RRT	Compound Name/ CAS Number	Base Peak	% Match	EVAL	Conc. (ug/Kg)
16	1.423	Benzene dicarboxylic acid isomer	149	89.9	ISO	14.0
17	1.436	Long chain alkane	57	91.1	ISO	8.38
18	1.449	Benzene dicarboxylic acid isomer	149	99.6	ISO	7.36
19	1.466	Unknown alkane	57	99.6	UK	13.1
20	1.489	Unknown ketone	55	85.3	UK	25.3
.	1.507	Long chain alkane	439	92.9	ISO	13.8
22	1.513	Benzene dicarboxylic acid isomer	149	96.9	ISO	12.8
23	1.525	Benzene dicarboxylic acid isomer	149	96.6	ISO	53.4
24	1.597	Unknown alkene	191	89.2	UK	8.78
25	1.641	Substituted anthracene	191	89.4	ISO	4.76
26	1.699	Unknown	204	67.2	UK	5.72
27		NO ADDITIONAL PEAKS FOUND				

Notes: RRT = Relative Ret. Time vs. Phenanthrene-d10

EVAL: RS = Reasonable Identification
ISO = Isomer or Similar Compound
UK = Unknown

Conc: Concentration estimate assumes a response factor of 1.000 vs. phenanthrene-d10.

PLUS15.doc

Ref. No. 22 p. 65

INTERNATIONAL HYDRONICS CORP. NJDEP LAB. # 18086

VOLATILE PURGEABLE ORGANICS BY GC/MS

MS Data File: >V2128 IHC Job #: 89-0045-00
Client: ERM
Sample ID: P-5 +15

Sample Matrix: Water
Sample Amount: 25.00 mL % Sample : 100.0%
Date Run: 01/22/89 Mass Spectroscopist: Deborah Haney

VOLATILE ORGANIC COMPOUNDS	DETECTION LIMIT (ug/L)	AS IS RESULT (ug/L)	DRY BASIS RESULT (ug/kg)
Benzene	2	BDL	
Bromodichloromethane	2	BDL	
Bromoform	2	BDL	
Bromomethane	4	BDL	
Carbon Tetrachloride	2	BDL	
Chlorobenzene	2	BDL	
Chloroethane	4	BDL	
2-Chloroethylvinyl ether	20	BDL	
Chloroform	2	BDL	
Chloromethane	4	BDL	
Dibromochloromethane	2	BDL	
1,2-Dichlorobenzene	2	BDL	
1,3-Dichlorobenzene	2	BDL	
1,4-Dichlorobenzene	2	BDL	
1,1-Dichloroethane	2	BDL	
1,2-Dichloroethane	2	BDL	
1,1-Dichloroethylene	2	BDL	
trans-1,2-Dichloroethylene	2	BDL	
1,2-Dichloropropane	2	BDL	
cis-1,3-Dichloropropylene	2	BDL	
trans-1,3-Dichloropropylene	2	BDL	
Ethyl benzene	2	BDL	
Methylene chloride	2	BDL	
1,1,2,2-Tetrachloroethane	2	BDL	
Tetrachloroethylene	2	BDL	
Toluene	2	BDL	
1,1,1-Trichloroethane	2	BDL	
1,1,2-Trichloroethane	2	BDL	
Trichloroethylene	2	BDL	
Trichlorofluoromethane	2	BDL	
Vinyl chloride	4	BDL	
Acrolein	20	BDL	
Acrylonitrile	20	BDL	
o-Xylene	2	BDL	
m&p-Xylene	2	BDL	

VOLATILE SURROGATE COMPOUND		% RECOVERY
1,2-Dichloroethane	V1	88.6
Toluene-d8	V2	97.6
4-Bromofluorobenzene	V3	91.2

Note: BDL = Below Detection Limit

Ref. No. 22 p. 66

International
HYDRONICS CORPORATION
PO BOX 843 ROCKY HILL NJ 08553
(609)-921-9818

Library Search of Non-Target Compounds on NBS Mass Spectral Data Base

Date: 01/25/89
IHC Job #: 89-0045-00
Sample ID: P-5
GS/MS Data File: V2128
Fraction: Volatiles
Mass Spectroscopist: Deborah D.Haney

NO.	RRT	Scan #	Compound Name/ CAS Number	Base Peak	% Match	EVAL	Conc. (ug/kg)
1			NO ADDITIONAL PEAKS IDENTIFIED				
2							
3							
4							
5							
6							
7							
8							
9							
10							

Notes: RRT = Relative Ret. Time vs. 1,4-Difluorobenzene

EVAL: RS = Reasonable Identification
ISO = Isomer or Similar Compound
UK = Unknown

Conc: Concentration estimate assumes a response factor of 1.000 vs. 1,4-Difluorobenzene

Ref. No. 22 p. 67

INTERNATIONAL HYDRONICS CORP. NJDEP LAB. # 180

SEMIVOLATILE EXTRACTABLE ORGANICS BY GC/MS

MS Data File: >S2166 IHC Job #: 89-0045-00
Client: ERM
Sample ID: P-5

Sample Matrix: Water
Sample Amount: 50.0 mL % Sample : 100.0%
Date Run: 01/26/89 Mass Spectroscopist: Deborah Haney

BASE/NEUTRAL COMPOUNDS Detection Limit = 200. ug/L	AS IS RESULT (ug/L)	DRY BASIS RESULT (ug/kg)
Acenapthene	BDL	
Acenapthylene	BDL	
Anthracene	BDL	
Azobenzene	BDL	
Benzo(a)anthracene	BDL	
Benzo(b)fluoranthene	BDL	
Benzo(k)fluoranthene	BDL	
Benzo(a)pyrene	BDL	
Benzo(ghi)perylene	BDL	
Benzidine	BDL	
Bis(2-chloroethyl)ether	BDL	
Bis(2-chloroethoxy)methane	BDL	
Bis(2-chloroisopropyl)ether	BDL	
Bis(2-ethylhexyl)phthalate	BDL	
4-Bromophenyl phenyl ether	BDL	
Butyl benzyl phthalate	BDL	
2-Chloronapthalene	BDL	
4-Chlorophenyl phenyl ether	BDL	
Chrysene	BDL	
Dibenzo(a,h)anthracene	BDL	
Di-n-butyl phthalate	BDL	
1,2-Dichlorobenzene	BDL	
1,3-Dichlorobenzene	BDL	
1,4-Dichlorobenzene	BDL	
3,3'-Dichlorobenzidine	BDL	
Diethyl Phthalate	BDL	
Dimethyl Phthalate	BDL	
2,4-Dinitrotoluene	BDL	
2,6-Dinitrotoluene	BDL	
Di-n-octylphthalate	BDL	
Fluoranthene	BDL	
Fluorene	BDL	
Hexachlorobenzene	BDL	
Hexachlorobutadiene	BDL	
Hexachlorocyclopentadiene	BDL	
Hexachloroethane	BDL	
Indeno(1,2,3-cd)pyrene	BDL	
Isophorone	BDL	
Naphthalene	BDL	
Nitrobenzene	BDL	
N-Nitrosodi-n-propylamine	BDL	
Phenanthrene	BDL	
Pyrene	BDL	
1,2,4-Trichlorobenzene	BDL	
o-Xylene	BDL	
m&p-Xylene	BDL	
N-Nitrosodimethylamine	BDL	
N-Nitrosodiphenylamine	BDL	

BASE/NEUTRAL SURROGATE COMPOUND		% RECOVERY
Nitrobenzene-d5	B1	82.2
2-Fluorobiphenyl	B2	66.0
Terphenyl-d14	B3	79.0

Note: BDL = Below Detection Limit

Ref. No. 22 p. 68

INTERNATIONAL HYDRONICS CORP. NJDEP LAB. # 18086

SEMIVOLATILE EXTRACTABLE ORGANICS BY GC/MS

MS Data File: >S2166 IHC Job #: 89-0045-00
Client: ERM
Sample ID: P-5

Sample Matrix: Water
Sample Amount: 50.0 mL % Sample : 100.0%
Date Run: 01/26/89 Mass Spectroscopist: Deborah Haney

ACID EXTRACTABLE COMPOUNDS Detection Limit = 200. ug/L	AS IS RESULT (ug/L)	DRY BASIS RESULT (ug/kg)
4-Chloro-3-methylphenol	BDL	
2-Chlorophenol	BDL	
2,4-Dichlorophenol	BDL	
2,4-Dimethylphenol	BDL	
2,4-Dinitrophenol	BDL	
2-Methyl-4,6-dinitrophenol	BDL	
2-Nitrophenol	BDL	
4-Nitrophenol	BDL	
Pentachlorophenol	BDL	
Phenol	BDL	
2,4,6-Trichlorophenol	BDL	

ACID EXTRACTABLE SURROGATE COMPOUND		% RECOVERY
2-Fluorophenol	A1	48.5
Phenol-d6	A2	75.0
2,4,6-Tribromophenol	A3	34.2

Note: BDL = Below Detection Limit

Ref. No 22 p. 69

International
HYDRONICS CORPORATION
PO BOX 843 ROCKY HILL NJ 08553
(609)-921-9816

Library Search of Non-Target Compounds on NBS Mass Spectral Data Base

Date: 01/25/89
IHC Job #: 89-0045-00
Sample ID: P-5
GS/MS Data File: S2166
Fraction: Semivolatiles
Mass Spectroscopist: Deborah D.Haney

NO.	RT	Compound Name/ CAS Number	Base Peak	% Match	EVAL	Conc. (ug/L)
1		NO ADDITIONAL PEAKS DETECTED				
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						

Notes: RT = Absolute Retention Time

EVAL: RS = Reasonable Identification
ISO = Isomer or Similar Compound
UK = Unknown

Conc: Concentration estimate assumes a response factor of 1.000 vs. phenanthrene-d10.

PLUS15.doc

Ref. No. 22 p. 70

INTERNATIONAL HYDRONICS CORP. NJDEP LAB. # 18086

VOLATILE PURGEABLE ORGANICS BY GC/MS

MS Data File: >V2131 IHC Job #: 89-0045-00
Client: ERM
Sample ID: P-6 +15

Sample Matrix: Water
Sample Amount: 25.00 mL % Sample : 100.0%
Date Run: 01/22/89 Mass Spectroscopist: Deborah Haney

VOLATILE ORGANIC COMPOUNDS	DETECTION LIMIT (ug/L)	AS IS RESULT (ug/L)	DRY BASIS RESULT (ug/kg)
Benzene	2	BDL	
Bromodichloromethane	2	BDL	
Bromoform	2	BDL	
Bromomethane	4	BDL	
Carbon Tetrachloride	2	BDL	
Chlorobenzene	2	BDL	
Chloroethane	4	BDL	
2-Chloroethylvinyl ether	20	BDL	
Chloroform	2	BDL	
Chloromethane	4	BDL	
Dibromochloromethane	2	BDL	
1,2-Dichlorobenzene	2	BDL	
1,3-Dichlorobenzene	2	BDL	
1,4-Dichlorobenzene	2	BDL	
1,1-Dichloroethane	2	BDL	
1,2-Dichloroethane	2	BDL	
1,1-Dichloroethylene	2	BDL	
trans-1,2-Dichloroethylene	2	BDL	
1,2-Dichloropropane	2	BDL	
cis-1,3-Dichloropropylene	2	BDL	
trans-1,3-Dichloropropylene	2	BDL	
Ethyl benzene	2	BDL	
Methylene chloride	2	BDL	
1,1,2,2-Tetrachloroethane	2	BDL	
Tetrachloroethylene	2	BDL	
Toluene	2	BDL	
1,1,1-Trichloroethane	2	BDL	
1,1,2-Trichloroethane	2	BDL	
Trichloroethylene	2	BDL	
Trichlorofluoromethane	4	BDL	
Vinyl chloride	20	BDL	
Acrolein	20	BDL	
Acrylonitrile	2	BDL	
o-Xylene	2	BDL	
m&p-Xylene			

VOLATILE SURROGATE COMPOUND		% RECOVERY
1,2-Dichloroethane	V1	87.8
Toluene-d8	V2	95.4
4-Bromofluorobenzene	V3	87.8

Note: BDL = Below Detection Limit

Ref. No. 22 p. 71

International
HYDRONICS CORPORATION
PO BOX 843 ROCKY HILL NJ 08553
(609)-921-9818

Library Search of Non-Target Compounds on NBS Mass Spectral Data Base

Date: 01/25/89
IHC Job #: 89-0045-00
Sample ID: P-6
GS/MS Data File: V2131
Fraction: Volatiles
Mass Spectroscopist: Deborah D.Haney

NO.	RRT	Scan #	Compound Name/ CAS Number	Base Peak	% Match	EVAL	Conc. (ug/kg)
1			NO ADDITIONAL PEAKS IDENTIFIED				
2							
3							
4							
5							
6							
7							
8							
9							
10							

Notes: RRT = Relative Ret. Time vs. 1,4-Difluorobenzene

EVAL: RS = Reasonable Identification
ISO = Isomer or Similar Compound
UK = Unknown

Conc: Concentration estimate assumes a response factor of 1.000 vs. 1,4-Difluorobenzene

Ref. No. 22 p. 72

INTERNATIONAL HYDRONICS CORP. NJDEP LAB. # 18086

SEMIVOLATILE EXTRACTABLE ORGANICS BY GC/MS

MS Data File: >S2167 IHC Job #: 89-0045-00
Client: ERM
Sample ID: P-6

Sample Matrix: Water
Sample Amount: 50.0 mL % Sample : 100.0%
Date Run: 01/26/89 Mass Spectroscopist: Deborah Haney

BASE/NEUTRAL COMPOUNDS Detection Limit = 200. ug/L	AS IS RESULT (ug/L)	DRY BASIS RESULT (ug/kg)
Acenapthene	BDL	
Acenapthylene	BDL	
Anthracene	BDL	
Azobenzene	BDL	
Benzo(a)anthracene	BDL	
Benzo(b)fluoranthene	BDL	
Benzo(k)fluoranthene	BDL	
Benzo(a)pyrene	BDL	
Benzo(ghi)perylene	BDL	
Benzidine	BDL	
Bis(2-chloroethyl)ether	BDL	
Bis(2-chloroethoxy)methane	BDL	
Bis(2-chloroisopropyl)ether	BDL	
Bis(2-ethylhexyl)phthalate	BDL	
4-Bromophenyl phenyl ether	BDL	
Butyl benzyl phthalate	BDL	
2-Chloronapthalene	BDL	
4-Chlorophenyl phenyl ether	BDL	
Chrysene	BDL	
Dibenzo(a,h)anthracene	BDL	
Di-n-butyl phthalate	BDL	
1,2-Dichlorobenzene	BDL	
1,3-Dichlorobenzene	BDL	
1,4-Dichlorobenzene	BDL	
3,3'-Dichlorobenzidine	BDL	
Diethyl Phthalate	BDL	
Dimethyl Phthalate	BDL	
2,4-Dinitrotoluene	BDL	
2,6-Dinitrotoluene	BDL	
Di-n-octylphthalate	BDL	
Fluoranthene	BDL	
Fluorene	BDL	
Hexachlorobenzene	BDL	
Hexachlorobutadiene	BDL	
Hexachlorocyclopentadiene	BDL	
Hexachloroethane	BDL	
Indeno(1,2,3-cd)pyrene	BDL	
Isophorone	BDL	
Naphthalene	BDL	
Nitrobenzene	BDL	
N-Nitrosodi-n-propylamine	BDL	
Phenanthrene	BDL	
Pyrene	BDL	
1,2,4-Trichlorobenzene	BDL	
o-Xylene	BDL	
m&p-Xylene	BDL	
N-Nitrosodimethylamine	BDL	
N-Nitrosodiphenylamine	BDL	

BASE/NEUTRAL SURROGATE COMPOUND		% RECOVERY
Nitrobenzene-d5	B1	68.3
2-Fluorobiphenyl	B2	60.8
Terphenyl-d14	B3	69.1

Note: BDL = Below Detection Limit

Ref. No. 22 p. 73

INTERNATIONAL HYDRONICS CORP. NJDEP LAB. # 18086

SEMIVOLATILE EXTRACTABLE ORGANICS BY GC/MS

MS Data File: >S2167 IHC Job #: 89-0045-00
Client: ERM
Sample ID: P-6

Sample Matrix: Water
Sample Amount: 50.0 mL % Sample : 100.0%
Date Run: 01/26/89 Mass Spectroscopist: Deborah Haney

ACID EXTRACTABLE COMPOUNDS Detection Limit = 200. ug/L	AS IS RESULT (ug/L)	DRY BASIS RESULT (ug/kg)
4-Chloro-3-methylphenol	BDL	
2-Chlorophenol	BDL	
2,4-Dichlorophenol	BDL	
2,4-Dimethylphenol	BDL	
2,4-Dinitrophenol	BDL	
2-Methyl-4,6-dinitrophenol	BDL	
2-Nitrophenol	BDL	
4-Nitrophenol	BDL	
Pentachlorophenol	BDL	
Phenol	BDL	
2,4,6-Trichlorophenol	BDL	

ACID EXTRACTABLE SURROGATE COMPOUND		% RECOVERY
2-Fluorophenol	A1	52.5
Phenol-d6	A2	71.5
2,4,6-Tribromophenol	A3	36.7

Note: BDL = Below Detection Limit

Ref. No. 22 p. 74

International
HYDRONICS CORPORATION
PO BOX 843 ROCKY HILL NJ 08553
(609)-921-9214

Library Search of Non-Target Compounds on NBS Mass Spectral Data Base

Date: 01/25/89
IHC Job #: 89-0045-00
Sample ID: P-6
GS/MS Data File: S2167
Fraction: Semivolatiles
Mass Spectroscopist: Deborah D.Haney

NO.	RT	Compound Name/ CAS Number	Base Peak	% Match	EVAL	Conc. (ug/L)
1		NO ADDITIONAL PEAKS DETECTED				
2						
3						
4						
5						
7						
8						
9						
10						
11						
12						
13						
14						
15						

Notes: RT = Absolute Retention Time

EVAL: RS = Reasonable Identification
ISO = Isomer or Similar Compound
UK = Unknown

Conc: Concentration estimate assumes a response factor of 1.000 vs. phenanthrene-d10.

PLUS15.doc

Ref. No. 22 p. 75

INTERNATIONAL HYDRONICS CORP. NJDEP LAB. # 18086

VOLATILE GC/MS MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

MS Data File: >V2128 IHC Job #: 89-0045-00
Client: ERM
Sample ID: P-5 +15

Sample Matrix: Water Matrix Spike MS Data File: >V2129
Sample Amount: 25.00 mL Matrix Spike Dup. MS Data File: >V2130
Date Run: 01/22/89 Mass Spectroscopist: Deborah Haney

VOLATILE SPIKE COMPOUNDS	SPIKE ADDED (ng)	SAMPLE RESULT (ng)	MS RESULT (ng)	MS REC. (%)	MSD RESULT (ng)	MSD REC. (%)	REL. % DIFF. (RPD)
Benzene	500.0	0.0	305.0	61.0	427.0	85.4	33.3
Chlorobenzene	500.0	0.0	520.0	104.0	525.0	105.0	1.0
1,1-Dichloroethylene	500.0	0.0	376.0	75.2	486.0	97.2	25.5
Toluene	500.0	0.0	493.0	98.6	506.0	101.2	2.6
Trichloroethylene	500.0	0.0	358.0	71.6	473.0	94.6	27.7

Ref. No. 22 p. 76

INTERNATIONAL HYDRONICS CORP. NJDEP LAB. # 18086

SEMIVOLATILE GC/MS MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

MS Data File: >S2166 IHC Job #: 89-0045-00
Client: ERM
Sample ID: P-5

Sample Matrix: Water Matrix Spike MS Data File: >S2179
Sample Amount: 50.0 mL Matrix Spike Dup. MS Data File: >S2180
Date Run: 01/26/89 Mass Spectroscopist: Deborah Haney

BASE/NEUTRAL SPIKE COMPOUNDS	SPIKE ADDED (ng)	SAMPLE RESULT (ng)	MS RESULT (ng)	MS REC. (%)	MSD RESULT (ng)	MSD REC. (%)	REL. % DIFF. (RPD)
Acenapthene	100.0	0.0	48.8	48.8	47.8	47.8	2.1
Di-n-butyl phthalate	100.0	0.0	37.2	37.2	37.7	37.7	1.3
1,4-Dichlorobenzene	100.0	0.0	59.6	59.6	55.6	55.6	6.9
2,4-Dinitrotoluene	100.0	0.0	54.7	54.7	51.3	51.3	6.4
N-Nitrosodi-n-propylamine	100.0	0.0	25.9	25.9	23.0	23.0	11.9
Pyrene	100.0	0.0	59.8	59.8	49.0	49.0	19.9
1,2,4-Trichlorobenzene	100.0	0.0	54.4	54.4	46.6	46.6	15.4
m&p-Xylene	100.0	0.0	93.0	93.0	91.5	91.5	1.6

ACID EXTRACTABLE SPIKE COMPOUNDS	SPIKE ADDED (ng)	SAMPLE RESULT (ng)	MS RESULT (ng)	MS REC. (%)	MSD RESULT (ng)	MSD REC. (%)	REL. % DIFF. (RPD)
4-Chloro-3-methylphenol	200.0	0.0	65.0	32.5	80.9	40.5	21.8
2-Chlorophenol	200.0	0.0	41.9	21.0	91.7	45.8	74.6
4-Nitrophenol	200.0	0.0	11.9	5.9	49.1	24.5	122.0
Pentachlorophenol	200.0	0.0	0.0	0.0	18.9	9.4	200.0
Phenol	200.0	0.0	44.4	22.2	81.2	40.6	58.6

Ref. No. 22 p. 77

PETROLEUM HYDROCARBONS ANALYSIS

QUALITY CONTROL DATA

LAB NAME: INTERNATIONAL HYDRONICS CORP.

DATE: 1-26-89 IHC JOB #:89-0045

Spiked Sample Recoveries (%R)

Sample Result (mg/kg)	Spike Amount (mg/kg)	Spike Result (mg/kg)	Net Result (mg/kg)	%R
2206	2960	6700	4494	152

Duplicate Analysis Results

Sample Result (mg/kg)	Dup. Result (mg/kg)	RPD (Rel. % Difference)
2206	3740	51.6

Ref. No. 22 p. 78

WORK PLAN FOR REMEDIATION OF SEEP AREA
ESSEX SPECIALTY PRODUCTS, INC.
SAYREVILLE BOROUGH FACILITY
SAYREVILLE, NEW JERSEY

ECRA Case No. 88904

14 September 1989

Prepared for:

Essex Chemical Corporation, Inc.
1401 Broad Street
Clifton, NJ 07015

Prepared by:

Environmental Resources Management, Inc.
Carnegie Professional Building, Suite 204
100 Canal Pointe Boulevard
Princeton, New Jersey 08540

File #780-05

Ref. No. 22 p. 79

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The ERM Group

Ref. No. 22 p. 80

SECTION 1

INTRODUCTION

This Remediation Plan was prepared in response to a letter from John Defina of the New Jersey Department of Environmental Protection (NJDEP) dated 7/25/89 to Essex Chemical Corporation. Part 3, Item #18 of this letter requested that Essex begin to implement source control of an apparent phthalate seep near the old underground storage tank area at Essex's Sayreville Borough facility, within 30 days of receipt of the aforementioned letter.

The 7/25/89 NJDEP letter also outlined deficiencies in the Site Evaluation Submission (SES) dated 1/31/89. These deficiencies will be addressed in a separate, comprehensive document which will include a supplemental sampling plan.

Refer to the SES for a general site description, and other details of the Essex Sayreville Borough facility.

ERM

Ref. No. 22 p. 8

SECTION 2

AREA OF CONCERN

The area of concern is the former underground storage tank area located at the northeast corner of the Essex Sayerville Borough facility (The Facility)(see Figure 1). The specific area of suspected bis (2-ethylhexyl) phthalate contamination is located between the west corner of the former underground storage tank (UGST) area and Burt's Creek. This area is the focus of our work plan.

2.1 History

The Facility began operations in 1965. Prior to 1965, the site location was unused woods. From approximately 1965 to approximately 1983, the Facility utilized sixteen (16) partially buried tanks.

During the week of 7/26/78, Facility personnel discovered a leak in former tank #101 in the UGST farm, which contained bis (2-ethylhexyl) phthalate[1] (see attached site map). On 8/30/78, a spill of approximately 200 gallons of bis (2-ethylhexyl) phthalate occurred due to the accidental overfilling of a former UGST (believed to be former tank #102). In response to these events, the Facility attempted to clean up and dispose of surface and subsurface contaminated material, and to investigate the horizontal and vertical extent of subsurface contamination. Woodward-Clyde Consultants was hired by the Facility to define the extent of contamination[2].

Twelve (12) monitoring wells were installed between 1983 and 1984 to analyze ground water quality in the upper and lower

---

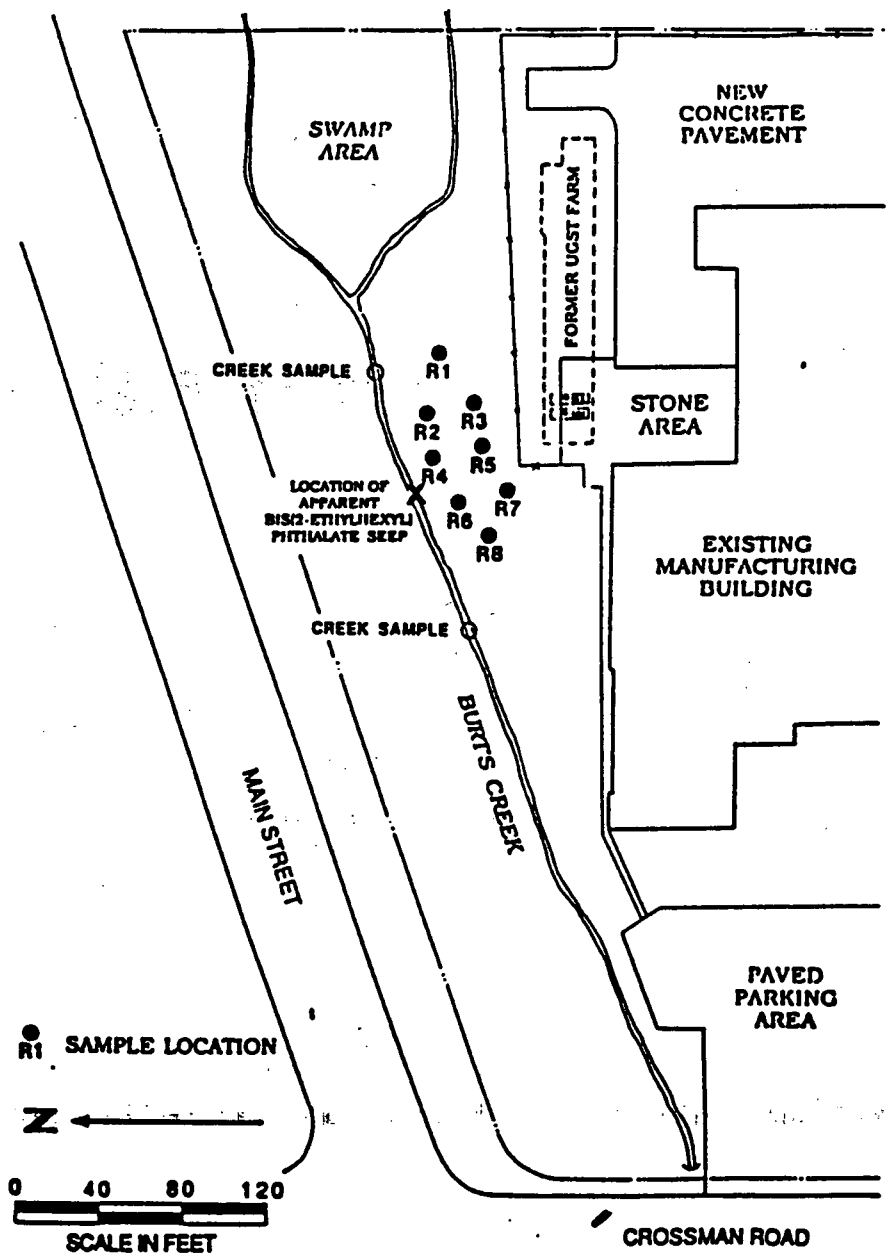
[1]Other chemical names for bis (2-ethylhexyl) phthalate that are noted throughout reports and correspondence are di (2-ethylhexyl) phthalate and dioctyl phthalate (DOP). All three names represent the same chemical.

[2]Additional documentation on the bis (2-ethylhexyl) phthalate spill and leak will be provided in a forthcoming response to the original SES.

Ref. No. 22 p. 82

Figure1

SEEP AREA SITE MAP
ESSEX SAYREVILLE BOROUGH FACILITY



WO#	Drawn by/Date	Checked by/Date	
780-05	PETER L. SUDANO 8/16/89	DREW A. GOULD 8/17/89	The ERM
	Reviewed by/Date	Checked by/Date	

Ref. No. 22 p. 83

ground water aquifers down-gradient of the tank leak. In 1983, the Facility began collecting water samples from these wells and from Burt's Creek (upstream and downstream) on a regular basis in order to monitor water quality in the aquifer and Creek. Organic compounds detected in the ground water since 1983 included bis (2-ethylhexyl) phthalate, toluene, total xylenes, and benzene (see Attachment 12 of the SES for additional information).

In January 1983, all UGSTs were excavated, cleaned, and disposed of by Olsen and Hassold, Inc., a chemical cleaning service (see Attachment 13 of the SES). Although limited information concerning the UGST removal is available, employees of the Facility were in communication with NJDEP officials in late 1983 concerning potential ground water contamination, which included steps to be taken for remediation of bis (2-ethylhexyl) phthalate contamination. Internal memos between Facility personnel concerning spill and leak remediation are provided in Attachment 7 of the Supplemental Sampling Plan (SSP), a response to deficencies in the original SES.

2.2 Current Problem

The results of ground water sampling between 1984 and 1988 suggest a significant decline in the level of most ground water contaminants. The most recent ground water and creek sampling was conducted by IT Corporation on September 13 and 21, 1988. Volatile organic analysis indicated that organics are almost completely nonexistent in ground water and creek water on the site. Bis (2-ethylhexyl) phthalate, the only base-neutral extractable organic compound previously detected, was still present in low concentrations (≤20 ppb) in several wells, and in higher concentrations (950 ppb) in a creek sample.

Discussions with Facility employees concerning current ground water conditions brought to light the possible presence of a bis (2-ethylhexyl) phthalate source area between the western end of the former UGST farm and Burt's Creek. This prompted ERM, Inc. to more thoroughly investigate the area between Burt's Creek and the old UGST farm. As a result of this investigation, a small visible seep of clear oily liquid was observed flowing into

ERM

Ref. No. 22 p. 84

Burt's Creek from the general location of the 1978 bis (2-ethylhexyl) phthalate spill (see Figure 1).

Ref. No. 22 p. 85

SECTION 3

REMEDIATION PLAN

The remediation plan includes a scope of work that specifically addresses the bis (2-ethylhexyl) phthalate area. The intent of this work plan is not to address all detected contaminants in the ground water, but to provide a workable interim corrective action that will abate the bis (2-ethylhexyl) phthalate seep into Burt's Creek, as requested by the 7/25/89 letter from the NJDEP to Essex Chemical Corporation.

3.1 Soil Sampling

In order to delineate the suspected bis (2-ethylhexyl) phthalate source area, we propose to collect eight (8) soil borings from an area surrounding the location of the 1978 spill and leak. The probable location of the source area is based on knowledge of the original release point of the contaminant, local hydrologic conditions, direct observation of the contaminant, and geophysical evidence from a 1983 geophysical survey performed by Woodward-Clyde Consultants. At each location, soil samples will be collected at the surface, and at approximately 1.5 foot depth intervals to the water table.

The soil samples will be collected with a stainless-steel bucket auger, and analyzed for base-neutral extractable organic compounds as per EPA method 8250. All soil sample holes will be backfilled with soil cuttings. The field sampling equipment will be decontaminated between soil samples as per NJDEP standard decontamination procedures.

The soil samples will include Tier II data packages and ERM validation services. The results of the soil sampling will enable ERM to delineate the suspected source of the bis (2-ethylhexyl) phthalate as quickly as possible, and accurately determine the location of a ground water recovery and monitoring wells.

Ref. No. 22 p. 86

3.2 Recovery and Clean-up of Contaminated Ground Water

3.2.1 Method

ERM proposes to install a ground water recovery well to remove free phase bis (2-ethylhexyl) phthalate from the ground water. and to prevent further down-gradient migration of this compound. The recovery well will be situated to provide maximum recovery of contaminants. as determined by the results of the soil sampling analysis.

ERM also propose to drill two additional monitoring wells to help evaluate the effectiveness of the recovery well. The exact location of these monitoring wells will be based on the location of the recovery well, and on the results of the soil sampling program.

3.2.2 Well Construction

The recovery well will be constructed of eight-inch diameter PVC casing with fifteen feet of .020 slot well screen and two feet of surface casing. The monitoring wells will be constructed of two-inch diameter PVC casing with fifteen feet of .020 slot well screen and two feet of surface casing. All wells will be installed with protective surface casing. During drilling, soil cuttings will be monitored for volatile organic vapors using a portable OVA with (FID). The results of this scanning technique will allow us to estimate the presence of total volatile organic vapors in the underlying material.

3.2.3 Well Development and Recovery

Upon completion, the recovery well and the monitoring wells will be developed by air surge techniques for a minimum of one hour or until pH and specific conductance stabilizes. The development well water will be collected and routed to the on-site oil/water separator that discharges to the MCUA sanitary sewer system. During development, the recovery well will be screened with an organic vapor analyzer (OVA) with a flame ionization detector (FID), for the detection of possible organic compounds .

Ref. No. 22 p. 87

After the recovery well is properly developed, a Specific Capacity Aquifer Test will be performed on the recovery well at different pumping rates. The information collected during the Specific Capacity Aquifer Test will allow ERM to determine the size of the submersible pump and the pumping rate needed to establish a static ground water condition while containing and removing the bis (2-ethylhexyl) phthalate contaminant.

The recovery well is designed to recover total fluids; based on visual observation, there is not enough free product present to warrant a floating phase recovery system.

All wells will be installed by a licensed New Jersey Well Driller, Summit Drilling Company, Inc. of Bridgewater NJ, and all necessary permits will be obtained for each well.

3.3 Evaluation of Ground Water Recovery Well

In order to evaluate the effectiveness of the ground water recovery well, ground water levels and samples will be collected from the newly installed monitoring wells. Two sets of data will be collected: one before the recovery well pump is turned on and one approximately one week later. Ground water samples will be analyzed for BN+15 as per EPA method 625. Changes in water levels and ground water quality should allow us to determine the effectiveness of the recovery well. The magnitude of water level change and/or changes in ground water quality can not be estimated at this time.

In addition creek water samples will be collected from two locations; one upstream of the seep and one downstream of the seep area. One set of samples will be collected on the same day that the monitoring wells are sampled, and a second set will be collected one week later. These four (4) samples will be analyzed for BN+15.

3.4 Discharge of Ground Water

The Facility hopes to be able to discharge ground water to the Middlesex County Utility Authority (MCUA) sanitary sewer system. Based on a conversation between ERM and John Prendergast of the Facility concerning Mr. Prendergast's

discussions with the MCUA, discharge of ground water should be approved if MCUA's maximum discharge allowance is observed. Mr. Prendergast has written a letter to the MCUA requesting permission to discharge 10 to 15 gallons of water per minute to the separator for a period of approximately one month, which approximates our preliminary estimate of pumping and discharge needs. The Facility is currently awaiting a reply from the MCUA.

If the Facility is granted approval to discharge ground water to the MCUA, the recovered ground water will be discharged to the Facility's oil/water separator. The oil/water separator currently receives all storm water runoff from the east and south sides of the Facility. The water that passes through the oil/water separator is then discharged to the MCUA. The bis (2-ethylhexyl) phthalate collected by the oil/water separator will be periodically removed and disposed of as hazardous waste by the Facility.

If the Facility is not granted approval to discharge ground water to the MCUA, ERM will assist the Facility in evaluating treatment alternatives to properly treat and eventually dispose of the ground water.

3.5 Excavation of Contaminated Soil

Once the ground water recovery system is operational and the location of the contaminated area is identified by the proposed soil sampling program, all contaminated soil associated with the seep area will be excavated. EnviroClean Inc., an affiliate of ERM Inc. that deals with site remediation projects, will coordinate the excavation, containment, classification, storage, and disposal of all soils excavated. Details of the soil excavation program will be provided in a subsequent proposal.

Post-excavation soil sampling will not be performed; due to the shallow ground water conditions, post excavational soil sampling would not be representative of clean soils. Existing ground water monitoring wells, including the two new wells, will be used to determine the effectiveness of the clean-up.

Ref. No. 22 p. 89

3.6 Permitting

The procedure for obtaining permits for excavation of soil in potential wetlands and/or nearby streams is typically a 30 to 60 day process. At this time, ERM is unable to determine the types of permits needed to excavate soil from this area until we have an opportunity to assess the extent and concentration of contamination. ERM has begun the collection of information concerning the permitting process through discussions with the NJDEP and other relevant regulatory agencies, in order to minimize any early delays in the permitting process.

3.7 Schedule

Figure 2 presents the overall work plan schedule for abatement of the bis (2-ethylhexyl) phthalate seep area. The schedule is tentative pending MCUA approval to discharge ground water to the sanitary sewer system, and pending the permitting required for implementing interim corrective measures.

3.8 Further Assessment of Ground Water Contamination

Additional remediation will be required to address the ground water contamination detected in many of the monitoring wells, as requested in Items #16 and 17 of the letter from John Defina of the NJDEP dated 7/25/89 to Essex Chemical Corporation. Essex will need to implement a plan, possibly including a feasibility study, to further evaluate the presence of ground water contamination. ERM will address this issue in the forthcoming supplemental sampling plan, a response to the original Site Evaluation Submission.

Ret. No. 22 p. 90

SECTION 4

BUSINESS PROPOSAL

It is expected that the services outlined for the project can be accomplished for an ESTIMATED PROBABLE COST of $51,580. Only those costs incurred will be charged, but they will not exceed the ESTIMATED PROBABLE COST without your prior approval. To avoid misunderstanding, it should be emphasized that the ESTIMATED PROBABLE COST is a budget estimate, based on present knowledge of the assignment, which is believed sufficient to cover services herein described, but no guarantee is made or implied.

Services		Approximate Cost
ERM	Labor	$13,750
	Expenses	2,900
Subcontractor	Drilling	10,660
	Surveying	1,150
	Laboratory	23,120
	Total Cost	$51,580

Notes:

1. The total cost does not include:
   a. soil removal
   b. analysis needed for soil removal
   c. time needed to address any permitting needed for soil removal
   d. possible subcontractor time to connect the recovery pump to Essex Chemical's electrical and sewer system

Ref. No. 22 pr 91

2. Laboratory cost includes:
   a. Tier II data packages
   b. one week turnaround
   c. ERM validation of laboratory data

Ref. No. 22 p. 92

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF HAZARDOUS WASTE MANAGEMENT
Lance R. Miller, Acting Director
CN 028
Trenton, N.J. 08625-0028
(609) 633-7141
Fax # (609) 633-1454

Certified Mail
Return Receipt Requested

FEB 14 1990

Deborah Rosenthal
Essex Speciality Products, Inc.
1135 Broad Street
Clifton, New Jersey 07015

Dear Ms. Rosenthal

Re: Essex Speciality Products, Inc.
Sayreville Boro, Middlesex County
ECRA Case # 88904
Sampling Plan Addendum Dated: September 22, 1989

Pursuant to the authority vested in the Commissioner of the New Jersey Department of Environmental Protection (NJDEP) by the Environmental Cleanup Responsibility Act (ECRA, N.J.S.A. 13:1K-6 et seq.) and delegated to the Chief of the Bureau of Environmental Evaluation and Cleanup Responsibility Assessment pursuant to N.J.S.A. 13:1B-4, the referenced Sampling Plan is hereby approved as conditioned herein:

Phthalate Spill/Seep Area

Requirements for the immediate source control of the phthalate seep area were detailed in the Department's letter dated July 25, 1989. On September 26, 1989 Essex responded with a proposal to install an interception well and collect soil samples to further delineate soil contamination. No significant remedial measures have been implemented to date.

Essex Specialty Products shall begin the implementation of remedial measures to cease the illegal discharge of phthalate product to Burt's Creek. Within 30 days of receipt of this letter Essex Speciality Products shall apply for all necessary Wetlands Permits for this remedial action, from the NJDEP Division of Coastal Resources. A copy of all permit applications shall be provided to the Case Manager. Essex Speciality Products shall implement the source control measures immediately when the appropriate Wetlands permits are received. Essex Speciality Products shall implement the following remedial actions:

Ref. No. 22 P. 93

ANALYTICAL DATA REPORT PACKAGE
FOR
ESSEX CHEMICAL
1401 BROAD STREET
CLIFTON, NEW JERSEY 07015

SAMPLE DATES - SEPTEMBER 13 & 21, 1988

PREPARED BY:

IT CORPORATION
ANALYTICAL SERVICES
165 FIELDCREST AVENUE
EDISON, NEW JERSEY 08818

NOVEMBER 1988

Ref. No. 22 p. 94

ANALYTICAL DATA REPORT PACKAGE
FOR
ESSEX CHEMICAL
1401 BROAD STREET
CLIFTON, NEW JERSEY 07015

Field Sample No.	Laboratory Sample No.	Sample Location	Date and Time of Collection
79030	E809124-01	OW-1S	9/13/88; 15:04
79031	E809124-02	OW-1D	9/13/88; 15:15
79032	E809124-03	OW-2S	9/13/88; 11:34
79033	E809124-04	OW-3S	9/13/88; 10:58
78866	E809125-01	OW-3D	9/13/88; 11:01
78867	E809125-02	OW-4S	9/13/88; 13:33
78868	E809125-03	OW-4D	9/13/88; 13:38
78869	E809125-04	OW-106S	9/13/88; 13:00
78870	E809126-01	OW-106D	9/13/88; 12:50
78871	E809126-02	OW-107S	9/13/88; 12:13
78872	E809126-03	OW-111S	9/13/88; 11:42
78873	E809126-04	OW-111D	9/13/88; 11:51
79048	E809127-01	Field Blank	9/13/88; 16:00
78874	E809127-02	Stream	9/13/88; 06:30
79034	E809127-03	Travel Blank	9/13/88; 13:30
79055	E809209-01	OW-4S	9/21/88; 13:30
79056	E809209-02	OW-4D	9/21/88; 13:35
79057	E809209-03	OW-106S	9/21/88; 14:23
79058	E809209-04	OW-106D	9/21/88; 14:17
79059	E809209-05	OW-3D	9/21/88; 13:53
79060	E809209-06	OW-107S	9/21/88; 14:04

Laboratory Name: ITAS-Edison
Certification # 12064
Supervisor/Manager Signature D.N. Osborne
Printed Name David N. Osborne

KD239-lab

Ref. NO. 22 p. 95

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LABORATORY CHRONICLE

C00001
Ref. No. 22 P. 47

LABORATORY CHRONICLE

	Date
Sample Date	9/13/88
Receipt/Refrigeration	9/13/88
Organics Extraction	
1. Acids	9/20-21/88
2. Base/Neutrals	9/20-21/88
3. Pesticides/PCBs	9/19-20/88
Analysis	
1. Volatiles	9/26-27/88
2. Acids	10/9-10/88
3. Base/Neutrals	10/9-10/88
4. Pesticides/PCBs	9/22-29/88
Section Supervisor Review and Approval	D Hackett-Hearn
Inorganics	
1. Metals	9/21/88-10/22/88
2. Cyanides	9/27/88
3. Phenol	9/23/88
4. Petroleum Hydrocarbons	NA
5.	
6.	
Section Supervisor Review and Approval	
Quality Control Supervisor Review and Approval	Deborah A. Keller

If fractions are re-extracted and re-analyzed because initial endeavors did not meet quality control acceptance criteria, include dates for both.

Ref. No. 22 p. 98

LABORATORY CHRONICLE

	Date
Sample Date	9/21/88
Receipt/Refrigeration	9/21/88

Organics Extraction

1. Acids	9/27/88
2. Base/Neutrals	9/27/88
3. Pesticides/PCBs	NA

Analysis

1. Volatiles	NA
2. Acids	10/10/88
3. Base/Neutrals	10/10/88
4. Pesticides/PCBs	NA

Section Supervisor Review and Approval: D Hackett-Feaver

Inorganics

1. Metals	NA
2. Cyanides	NA
3. Phenol	NA
4. Petroleum Hydrocarbons	NA
5.	
6.	

Section Supervisor Review and Approval: _____

Quality Control Supervisor Review and Approval: [illegible]

If fractions are re-extracted and re-analyzed because initial endeavors did not meet quality control acceptance criteria, include dates for both.

NARRATIVE

Ref. No. 22 p. 100

CC0004

Non-Conformance Summary

Parameter: Pesticide/PCB's

Sample ID	Status
E809126-01 OW-106D	Extract was contaminated with phthalates. There was no sample left for re-extraction.

Sample ID	Status
E809126-02 OW/107S	Total xylenes were identified in the library search. 'The remaining samples had total xylene levels of less than 5ug/L.

Ref. No. 22 p. 101

METHODOLOGY SUMMARY

Ref. No. 22p.102
CC0005

METHODOLOGY SUMMARY

Volatile Organics - GC/MS

For the analysis of volatile organics EPA Method 624 is used. An inert gas is bubbled through a sample contained in a specifically designed purging chamber at ambient temperature. The purgeables are efficiently transferred from the aqueous phase to the vapor phase. The vapor is swept through a sorbent column where the purgeables are trapped. After purging is completed, the sorbent column is heated and backflushed with the inert gas to desorb the purgeables onto a gas chromatographic column. The gas chromatograph is temperature programmed to separate the purgeables which are then detected with a mass spectrometer.

Base/Neutral and Acid Extractable Organics - GC/MS (Water)

The analysis of base/neutral and acid extractable organics is based on EPA Method 625. An aliquot of sample is brought to a specific pH and is extracted three times with methylene chloride. The extracts are dried through sodium sulfate, concentrated and analyzed by mass spectroscopy.

Pesticides/PCB's (Water)

The analysis of pesticides and PCB's is based on EPA Method 608. An aliquot of sample is extracted three times with methylene chloride and exchanged to hexane. The extracts are dried through sodium sulfate and concentrated. The extract is then separated by gas chromatography, and the analytes are measured using an electron capture detector.

Ref. No. 22 p. 103

Phenol - Technicon Method

The analysis of phenol is based on Technicon Industrial Method 127-71 W/B. The sample is distilled and the distillate reacts with alkaline ferricyanide and 4-aminoantipyrine to form a red complex which is measured colorimetrically at 505nm.

Cyanide

The analysis of cyanide is based on Standard Methods, 16th Edition (412) and Test Methods for Evaluating Solid Waste (9010). The cyanide, as hydrocyanic acid (HCN) is released by refluxing the sample with strong acid. The hydrocyanic acid is then distilled into an absorber-scrubber containing sodium hydroxide solution. The cyanide ion concentration in the absorbing solution is then manually determined colorimetrically.

Metals

The analysis of metals is based on Method 200.7 from 40CFR, Part 36. Samples to be analyzed by flame AA or ICP are digested with hydrochloric and nitric acid. Furnace analysis requires nitric acid digestion and mercury samples are digested with nitric and sulfuric acid.

Arsenic, selenium, antimony and thallium are analyzed by graphite furnace, mercury by cold vapor AA and all other metals by flame AA or ICP.

Ref. No. 22p. 10

CERTIFICATES OF ANALYSIS

Ref. No. 22 p. 105
000009

INTERNATIONAL TECHNOLOGY CORPORATION

Essex Chemical Corporation
1401 Broad Street
Clifton, NJ 07015
Attn: Dr. C. Binning
N.J. Lab Certification ID #12064

Job #: 529042
Date: 10/25/88
Auth: 9/13/88
Lot #: E809124
Invoice #: I02050
Sample Date: 9/13/8

REPORT OF ANALYSIS

	E809124-01 OW 1S (mg/L)
Cyanide (Total)	<0.03
Phenols (Total)	<0.01
Antimony	<0.020
Arsenic	<0.010
Beryllium	<0.005
Cadmium	<0.005
Chromium	<0.010
Copper	<0.020
Lead	<0.005
Mercury	<0.0002
Nickel	<0.040
Selenium	<0.005
Silver	<0.010
Thallium	<0.010
Zinc	0.18

cf/esexchemco

INTERNATIONAL TECHNOLOGY CORPORATION

Essex Chemical Corporation
1401 Broad Street
Clifton, NJ 07015
Attn: Dr. C. Binning
N.J. Lab Certification ID #12064

Job #: 529042
Date: 10/25/88
Auth: 9/13/88
Lot #: E809124
Invoice #: I02050
Sample Date: 9/13/88

REPORT OF ANALYSIS

Pesticide and PCB Compounds (by GC)	E809124-01 OW 1S (ug/L)
Aldrin	ND
BHC-alpha	ND
BHC-beta	ND
BHC-gamma (lindane)	ND
BHC-delta	ND
Chlordane	ND
4,4'-DDD	ND
4,4'-DDE	ND
4,4'-DDT	ND
Dieldrin	ND
Endosulfan I	ND
Endosulfan II	ND
Endosulfan Sulfate	ND
Endrin	ND
Endrin Aldehyde	ND
Heptachlor	ND
Heptachlor Epoxide	ND
Toxaphene	ND
PCB-1016	ND
PCB-1221	ND
PCB-1232	ND
PCB-1242	ND
PCB-1248	ND
PCB-1254	ND
PCB-1260	ND

ND - Nondetectable less than 0.2 ug/L for Pesticides and less than 0.5 ug/L for PCB's and Toxaphene.

INTERNATIONAL TECHNOLOGY CORPORATION

Essex Chemical Corporation
1401 Broad Street
Clifton, NJ 07015
Attn: Dr. C. Binning
N.J. Lab Certification ID #12064

Job #: 529042
Date: 10/25/88
Auth: 9/13/88
Lot #: E809124
Invoice #: I02050
Sample Date: 9/13/88

REPORT OF ANALYSIS

	E809124-02 OW 1D (mg/L)
Cyanide (Total)	<0.02
Phenols (Total)	<0.01
Antimony	<0.020
Arsenic	<0.010
Beryllium	<0.005
Cadmium	<0.005
Chromium	<0.010
Copper	<0.020
Lead	0.019
Mercury	<0.0002
Nickel	<0.040
Selenium	<0.005
Silver	<0.010
Thallium	<0.010
Zinc	0.32

INTERNATIONAL TECHNOLOGY CORPORATION

Essex Chemical Corporation
1401 Broad Street
Clifton, NJ 07015
Attn: Dr. C. Binning
N.J. Lab Certification ID #12064

Job #: 529042
Date: 10/25/88
Auth: 9/13/88
Lot #: E809124
Invoice #: I02050
Sample Date: 9/13/88

REPORT OF ANALYSIS

Pesticide and PCB Compounds (by GC)	E809124-02 OW-1D (ug/L)
Aldrin	ND
BHC-alpha	ND
BHC-beta	ND
BHC-gamma (lindane)	ND
BHC-delta	ND
Chlordane	ND
4,4'-DDD	ND
4,4'-DDE	ND
4,4'-DDT	ND
Dieldrin	ND
Endosulfan I	ND
Endosulfan II	ND
Endosulfan Sulfate	ND
Endrin	ND
Endrin Aldehyde	ND
Heptachlor	ND
Heptachlor Epoxide	ND
Toxaphene	ND
PCB-1016	ND
PCB-1221	ND
PCB-1232	ND
PCB-1242	ND
PCB-1248	ND
PCB-1254	ND
PCB-1260	ND

ND - Nondetectable less than 0.2 ug/L for Pesticides and less than 0.5 ug/L for PCB's and Toxaphene.

Ref. No. 22P.169

INTERNATIONAL TECHNOLOGY CORPORATION

Essex Chemical Corporation
1401 Broad Street
Clifton, NJ 07015
Attn: Dr. C. Binning
N.J. Lab Certification ID #12064

Job #: 529042
Date: 10/25/88
Auth: 9/13/88
Lot #: E809124
Invoice #: I02050
Sample Date: 9/13/88

REPORT OF ANALYSIS

	E809124-03 OW 2S (mg/L)
Cyanide (Total)	<0.02
Phenols (Total)	<0.01
Antimony	<0.020
Arsenic	<0.010
Beryllium	<0.005
Cadmium	<0.005
Chromium	<0.015
Copper	<0.020
Lead	<0.005
Mercury	<0.0002
Nickel	<0.040
Selenium	<0.005
Silver	<0.010
Thallium	<0.010
Zinc	0.14

Ref. No. 22 p. 110

INTERNATIONAL TECHNOLOGY CORPORATION

Essex Chemical Corporation
1401 Broad Street
Clifton, NJ 07015
Attn: Dr. C. Binning
N.J. Lab Certification ID #12064

Job #: 529042
Date: 10/25/88
Auth: 9/13/88
Lot #: E809124
Invoice #: I02050
Sample Date: 9/13/88

REPORT OF ANALYSIS

Pesticide and PCB Compounds (by GC)	E809124-03 OW-2S (ug/L)
Aldrin	ND
BHC-alpha	ND
BHC-beta	ND
BHC-gamma (lindane)	ND
BHC-delta	ND
Chlordane	ND
4,4'-DDD	ND
4,4'-DDE	ND
4,4'-DDT	ND
Dieldrin	ND
Endosulfan I	ND
Endosulfan II	ND
Endosulfan Sulfate	ND
Endrin	ND
Endrin Aldehyde	ND
Heptachlor	ND
Heptachlor Epoxide	ND
Toxaphene	ND
PCB-1016	ND
PCB-1221	ND
PCB-1232	ND
PCB-1242	ND
PCB-1248	ND
PCB-1254	ND
PCB-1260	ND

ND - Nondetectable less than 0.2 ug/L for Pesticides and less than 0.5 ug/L for PCB's and Toxaphene.

Ref. No. 22 p. 111

INTERNATIONAL TECHNOLOGY CORPORATION

Essex Chemical Corporation
1401 Broad Street
Clifton, NJ 07015
Attn: Dr. C. Binning
N.J. Lab Certification ID #12064

Job #: 529042
Date: 10/25/88
Auth: 9/13/88
Lot #: E809124
Invoice #: I02050
Sample Date: 9/13/88

REPORT OF ANALYSIS

	E809124-04 OW 3S (mg/L)
Cyanide (Total)	<0.02
Phenols (Total)	<0.01
Antimony	<0.020
Arsenic	<0.010
Beryllium	0.008
Cadmium	<0.005
Chromium	0.099
Copper	0.091
Lead	<0.005
Mercury	<0.0002
Nickel	<0.040
Selenium	<0.005
Silver	<0.010
Thallium	<0.010
Zinc	0.27

Regional Office
165 Fieldcrest Avenue • P.O. Box 7809 • Edison, New Jersey 08818-7809 • 201-225-2000

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INTERNATIONAL TECHNOLOGY CORPORATION

Essex Chemical Corporation
1401 Broad Street
Clifton, NJ 07015
Attn: Dr. C. Binning
N.J. Lab Certification ID #12064

Job #: 529042
Date: 10/25/88
Auth: 9/13/88
Lot #: E809124
Invoice #: I02050
Sample Date: 9/13/88

REPORT OF ANALYSIS

Pesticide and PCB Compounds (by GC)	E809124-04 OW 3S (ug/L)
Aldrin	ND
BHC-alpha	ND
BHC-beta	ND
BHC-gamma (lindane)	ND
BHC-delta	ND
Chlordane	ND
4,4'-DDD	ND
4,4'-DDE	ND
4,4'-DDT	ND
Dieldrin	ND
Endosulfan I	ND
Endosulfan II	ND
Endosulfan Sulfate	ND
Endrin	ND
Endrin Aldehyde	ND
Heptachlor	ND
Heptachlor Epoxide	ND
Toxaphene	ND
PCB-1016	ND
PCB-1221	ND
PCB-1232	ND
PCB-1242	ND
PCB-1248	ND
PCB-1254	ND
PCB-1260	ND

ND - Nondetectable less than 0.2 ug/L for Pesticides and less than 0.5 ug/L for PCB's and Toxaphene.

Ref. No. 22 p. 113

INTERNATIONAL TECHNOLOGY CORPORATION

Essex Chemical Corporation
1401 Broad Street
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Attn: Dr. C. Binning
N.J. Lab Certification ID #12064

Job #: 529042
Date: 10/25/88
Auth: 9/13/88
Lot #: E809125
Invoice #: I02050
Sample Date: 9/13/88

REPORT OF ANALYSIS

	E809125-01 OW 3D (mg/L)
Cyanide (Total)	<0.02
Phenols (Total)	0.01
Antimony	<0.020
Arsenic	<0.010
Beryllium	<0.005
Cadmium	<0.005
Chromium	0.010
Copper	<0.020
Lead	0.031
Mercury	<0.0002
Nickel	<0.040
Selenium	<0.005
Silver	<0.010
Thallium	<0.010
Zinc	0.21

Ref. No. 22 p. 114

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INTERNATIONAL TECHNOLOGY CORPORATION

Essex Chemical Corporation
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Attn: Dr. C. Binning
N.J. Lab Certification ID #12064

Job #: 529042
Date: 10/25/88
Auth: 9/13/88
Lot #: E809125
Invoice #: I02050
Sample Date: 9/13/88

REPORT OF ANALYSIS

Pesticide and PCB Compounds (by GC)	E809125-01 OW 3D (ug/L)
Aldrin	ND
BHC-alpha	ND
BHC-beta	ND
BHC-gamma (lindane)	ND
BHC-delta	ND
Chlordane	ND
4,4'-DDD	ND
4,4'-DDE	ND
4,4'-DDT	ND
Dieldrin	ND
Endosulfan I	ND
Endosulfan II	ND
Endosulfan Sulfate	ND
Endrin	ND
Endrin Aldehyde	ND
Heptachlor	ND
Heptachlor Epoxide	ND
Toxaphene	ND
PCB-1016	ND
PCB-1221	ND
PCB-1232	ND
PCB-1242	ND
PCB-1248	ND
PCB-1254	ND
PCB-1260	ND

ND - Nondetectable less than 0.2 ug/L for Pesticides and less than 0.5 ug/L for PCB's and Toxaphene.

Ref. No. 22 p. 115

INTERNATIONAL TECHNOLOGY CORPORATION

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Attn: Dr. C. Binning
N.J. Lab Certification ID #12064

Job #: 529042
Date: 10/25/88
Auth: 9/13/88
Lot #: E809125
Invoice #: I02050
Sample Date: 9/13/8

REPORT OF ANALYSIS

	E809125-02 OW 4S (mg/L)
Cyanide (Total)	<0.02
Phenols (Total)	0.03
Antimony	<0.020
Arsenic	0.030
Beryllium	0.015
Cadmium	<0.005
Chromium	0.44
Copper	0.21
Lead	<0.005
Mercury	<0.0002
Nickel	0.048
Selenium	0.006
Silver	<0.010
Thallium	<0.010
Zinc	0.31

Ref. No. 22 p. 116

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Attn: Dr. C. Binning
N.J. Lab Certification ID #12064

Job #: 529042
Date: 10/25/88
Auth: 9/13/88
Lot #: E809125
Invoice #: I02050
Sample Date: 9/13/88

REPORT OF ANALYSIS

Pesticide and PCB Compounds (by GC)	E809125-02 OW 4S (ug/L)
Aldrin	ND
BHC-alpha	ND
BHC-beta	ND
BHC-gamma (lindane)	ND
BHC-delta	ND
Chlordane	ND
4,4'-DDD	ND
4,4'-DDE	ND
4,4'-DDT	ND
Dieldrin	ND
Endosulfan I	ND
Endosulfan II	ND
Endosulfan Sulfate	ND
Endrin	ND
Endrin Aldehyde	ND
Heptachlor	ND
Heptachlor Epoxide	ND
Toxaphene	ND
PCB-1016	ND
PCB-1221	ND
PCB-1232	ND
PCB-1242	ND
PCB-1248	ND
PCB-1254	ND
PCB-1260	ND

ND - Nondetectable less than 0.2 ug/L for Pesticides and less than 0.5 ug/L for PCB's and Toxaphene.

Ref. No. 22 p. 117

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Attn: Dr. C. Binning
N.J. Lab Certification ID #12064

Job #: 529042
Date: 10/25/88
Auth: 9/13/88
Lot #: E809125
Invoice #: I02050
Sample Date: 9/13/88

REPORT OF ANALYSIS

	E809125-03 OW 4D (mg/L)
Cyanide (Total)	<0.02
Phenols (Total)	<0.01
Antimony	<0.020
Arsenic	<0.010
Beryllium	<0.005
Cadmium	<0.005
Chromium	<0.010
Copper	<0.020
Lead	<0.005
Mercury	<0.0002
Nickel	<0.040
Selenium	<0.005
Silver	<0.010
Thallium	<0.010
Zinc	0.085

Ref. No. 22 p. 118

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Attn: Dr. C. Binning
N.J. Lab Certification ID #12064

Job #: 529042
Date: 10/25/88
Auth: 9/13/88
Lot #: E809125
Invoice #: I02050
Sample Date: 9/13/8

REPORT OF ANALYSIS

Pesticide and PCB Compounds (by GC)	E809125-03 OW 4D (ug/L)
Aldrin	ND
BHC-alpha	ND
BHC-beta	ND
BHC-gamma (lindane)	ND
BHC-delta	ND
Chlordane	ND
4,4'-DDD	ND
4,4'-DDE	ND
4,4'-DDT	ND
Dieldrin	ND
Endosulfan I	ND
Endosulfan II	ND
Endosulfan Sulfate	ND
Endrin	ND
Endrin Aldehyde	ND
Heptachlor	ND
Heptachlor Epoxide	ND
Toxaphene	ND
PCB-1016	ND
PCB-1221	ND
PCB-1232	ND
PCB-1242	ND
PCB-1248	ND
PCB-1254	ND
PCB-1260	ND

ND - Nondetectable less than 0.2 ug/L for Pesticides and less than 0.5 ug/L for PCB's and Toxaphene.

Ref. No. 22p. 119

INTERNATIONAL TECHNOLOGY CORPORATION

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Attn: Dr. C. Binning
N.J. Lab Certification ID #12064

Job #: 529042
Date: 10/25/88
Auth: 9/13/88
Lot #: E809125
Invoice #: I02050
Sample Date: 9/13/88

REPORT OF ANALYSIS

	E809125-04 OW 106S (mg/L)
Cyanide (Total)	<0.02
Phenols (Total)	<0.01
Antimony	<0.020
Arsenic	<0.010
Beryllium	<0.005
Cadmium	<0.005
Chromium	<0.010
Copper	<0.020
Lead	<0.005
Mercury	<0.0002
Nickel	<0.040
Selenium	<0.005
Silver	<0.010
Thallium	<0.010
Zinc	<0.020

Ref. No. 22 p. 120

INTERNATIONAL TECHNOLOGY CORPORATION

Essex Chemical Corporation
1401 Broad Street
Clifton, NJ 07015
Attn: Dr. C. Binning
N.J. Lab Certification ID #12064

Job #: 529042
Date: 10/25/88
Auth: 9/13/88
Lot #: E809125
Invoice #: I02050
Sample Date: 9/13/88

REPORT OF ANALYSIS

Pesticide and PCB Compounds (by GC)	E809125-04 OW 106S (ug/L)
Aldrin	ND
BHC-alpha	ND
BHC-beta	ND
BHC-gamma (lindane)	ND
BHC-delta	ND
Chlordane	ND
4,4'-DDD	ND
4,4'-DDE	ND
4,4'-DDT	ND
Dieldrin	ND
Endosulfan I	ND
Endosulfan II	ND
Endosulfan Sulfate	ND
Endrin	ND
Endrin Aldehyde	ND
Heptachlor	ND
Heptachlor Epoxide	ND
Toxaphene	ND
PCB-1016	ND
PCB-1221	ND
PCB-1232	ND
PCB-1242	ND
PCB-1248	ND
PCB-1254	ND
PCB-1260	ND

ND - Nondetectable less than 0.2 ug/L for Pesticides and less than 0.5 ug/L for PCB's and Toxaphene.

Ref. No. 22 p. 121

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Essex Chemical Corporation
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Attn: Dr. C. Binning
N.J. Lab Certification ID #12064

Job #: 529042
Date: 10/25/88
Auth: 9/13/88
Lot #: E809126
Invoice #: I02050
Sample Date: 9/13/8

REPORT OF ANALYSIS

	E809126-01 OW 106D (mg/L)
Cyanide (Total)	<0.02
Phenols (Total)	<0.01
Antimony	<0.020
Arsenic	<0.010
Beryllium	<0.005
Cadmium	<0.005
Chromium	<0.010
Copper	<0.020
Lead	<0.005
Mercury	<0.0002
Nickel	<0.040
Selenium	<0.005
Silver	<0.010
Thallium	<0.010
Zinc	0.066

Ref. No. 22 p. 122

INTERNATIONAL TECHNOLOGY CORPORATION

Essex Chemical Corporation
1401 Broad Street
Clifton, NJ 07015
Attn: Dr. C. Binning
N.J. Lab Certification ID #12064

Job #: 529042
Date: 10/25/88
Auth: 9/13/88
Lot #: E809126
Invoice #: I02050
Sample Date: 9/13/88

REPORT OF ANALYSIS

Pesticide and PCB Compounds (by GC)	E809126-01 OW 106D (ug/L)
Aldrin	ND
BHC-alpha	ND
BHC-beta	ND
BHC-gamma (lindane)	ND
BHC-delta	ND
Chlordane	ND
4,4'-DDD	ND
4,4'-DDE	ND
4,4'-DDT	ND
Dieldrin	ND
Endosulfan I	ND
Endosulfan II	ND
Endosulfan Sulfate	ND
Endrin	ND
Endrin Aldehyde	ND
Heptachlor	ND
Heptachlor Epoxide	ND
Toxaphene	ND
PCB-1016	ND
PCB-1221	ND
PCB-1232	ND
PCB-1242	ND
PCB-1248	ND
PCB-1254	ND
PCB-1260	ND

ND - Nondetectable less than 0.5 ug/L for Pesticides and less than 1 ug/L for PCB's and Toxaphene.

Ref. No. 22p. 123

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Essex Chemical Corporation
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Attn: Dr. C. Binning
N.J. Lab Certification ID #12064

Job #: 529042
Date: 10/25/88
Auth: 9/13/88
Lot #: E809126
Invoice #: I02050
Sample Date: 9/13/88

REPORT OF ANALYSIS

	E809126-02 OW 107S (mg/L)
Cyanide (Total)	<0.02
Phenols (Total)	0.01
Antimony	<0.020
Arsenic	<0.010
Beryllium	<0.005
Cadmium	<0.005
Chromium	<0.010
Copper	<0.020
Lead	<0.005
Mercury	<0.0002
Nickel	<0.040
Selenium	<0.005
Silver	<0.010
Thallium	<0.010
Zinc	0.033

Ref. No. 22p.124

INTERNATIONAL TECHNOLOGY CORPORATION

Essex Chemical Corporation
1401 Broad Street
Clifton, NJ 07015
Attn: Dr. C. Binning
N.J. Lab Certification ID #12064

Job #: 529042
Date: 10/25/88
Auth: 9/13/88
Lot #: E809126
Invoice #: I02050
Sample Date: 9/13/88

REPORT OF ANALYSIS

Pesticide and PCB Compounds (by GC)	E809126-02 OW 107S (ug/L)
Aldrin	ND
BHC-alpha	ND
BHC-beta	ND
BHC-gamma (lindane)	ND
BHC-delta	ND
Chlordane	ND
4,4'-DDD	ND
4,4'-DDE	ND
4,4'-DDT	ND
Dieldrin	ND
Endosulfan I	ND
Endosulfan II	ND
Endosulfan Sulfate	ND
Endrin	ND
Endrin Aldehyde	ND
Heptachlor	ND
Heptachlor Epoxide	ND
Toxaphene	ND
PCB-1016	ND
PCB-1221	ND
PCB-1232	ND
PCB-1242	ND
PCB-1248	ND
PCB-1254	ND
PCB-1260	ND

ND - Nondetectable less than 0.2 ug/L for Pesticides and less than 0.5 ug/L for PCB's and Toxaphene.

INTERNATIONAL TECHNOLOGY CORPORATION

Essex Chemical Corporation
1401 Broad Street
Clifton, NJ 07015
Attn: Dr. C. Binning
N.J. Lab Certification ID #12064

Job #: 529042
Date: 10/25/88
Auth: 9/13/88
Lot #: E809126
Invoice #: I02050
Sample Date: 9/13/8

REPORT OF ANALYSIS

Pesticide and PCB Compounds (by GC)	E809126-03 OW 111S (ug/L)
Aldrin	ND
BHC-alpha	ND
BHC-beta	ND
BHC-gamma (lindane)	ND
BHC-delta	ND
Chlordane	ND
4,4'-DDD	ND
4,4'-DDE	ND
4,4'-DDT	ND
Dieldrin	ND
Endosulfan I	ND
Endosulfan II	ND
Endosulfan Sulfate	ND
Endrin	ND
Endrin Aldehyde	ND
Heptachlor	ND
Heptachlor Epoxide	ND
Toxaphene	ND
PCB-1016	ND
PCB-1221	ND
PCB-1232	ND
PCB-1242	ND
PCB-1248	ND
PCB-1254	ND
PCB-1260	ND

ND - Nondetectable less than 0.2 ug/L for Pesticides and less than 0.5 ug/L for PCB's and Toxaphene.

Ref. No. 22p. 126

INTERNATIONAL TECHNOLOGY CORPORATION

Essex Chemical Corporation
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Clifton, NJ 07015
Attn: Dr. C. Binning
N.J. Lab Certification ID #12064

Job #: 529042
Date: 10/25/88
Auth: 9/13/88
Lot #: E809126
Invoice #: I02050
Sample Date: 9/13/88

REPORT OF ANALYSIS

	E809126-03 DW 111S (mg/L)
Cyanide (Total)	<0.02
Phenols (Total)	<0.01
Antimony	<0.020
Arsenic	<0.010
Beryllium	<0.005
Cadmium	<0.005
Chromium	<0.010
Copper	<0.020
Lead	<0.005
Mercury	<0.0002
Nickel	<0.040
Selenium	<0.005
Silver	<0.010
Thallium	<0.010
Zinc	0.044

Ref. No. 22 P. 127

INTERNATIONAL TECHNOLOGY CORPORATION

Essex Chemical Corporation
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Attn: Dr. C. Binning
N.J. Lab Certification ID #12064

Job #: 529042
Date: 10/25/88
Auth: 9/13/88
Lot #: E809126
Invoice #: I02050
Sample Date: 9/13/88

REPORT OF ANALYSIS

	E809126-04 0W 111D (mg/L)
Cyanide (Total)	<0.02
Phenols (Total)	<0.01
Antimony	<0.020
Arsenic	<0.010
Beryllium	<0.005
Cadmium	<0.005
Chromium	<0.010
Copper	0.038
Lead	<0.005
Mercury	<0.0002
Nickel	<0.040
Selenium	<0.005
Silver	<0.010
Thallium	<0.010
Zinc	0.081

INTERNATIONAL TECHNOLOGY CORPORATION

Essex Chemical Corporation
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Attn: Dr. C. Binning
N.J. Lab Certification ID #12064

Job #: 529042
Date: 10/25/88
Auth: 9/13/88
Lot #: E809126
Invoice #: I02050
Sample Date: 9/13/88

REPORT OF ANALYSIS

Pesticide and PCB Compounds (by GC)	E809126-04 OW 111D (ug/L)
Aldrin	ND
BHC-alpha	ND
BHC-beta	ND
BHC-gamma (lindane)	ND
BHC-delta	ND
Chlordane	ND
4,4'-DDD	ND
4,4'-DDE	ND
4,4'-DDT	ND
Dieldrin	ND
Endosulfan I	ND
Endosulfan II	ND
Endosulfan Sulfate	ND
Endrin	ND
Endrin Aldehyde	ND
Heptachlor	ND
Heptachlor Epoxide	ND
Toxaphene	ND
PCB-1016	ND
PCB-1221	ND
PCB-1232	ND
PCB-1242	ND
PCB-1248	ND
PCB-1254	ND
PCB-1260	ND

ND - Nondetectable less than 0.2 ug/L for Pesticides and less than 0.5 ug/L for PCB's and Toxaphene.

Ref. No. 22p. 129

INTERNATIONAL TECHNOLOGY CORPORATION

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Attn: Dr. C. Binning
N.J. Lab Certification ID #12064

Job #: 529042
Date: 10/25/88
Auth: 9/13/88
Lot #: E809127
Invoice #: I02050
Sample Date: 9/13/88

REPORT OF ANALYSIS

	E809127-01 Field Blank (mg/L)
Cyanide (Total)	<0.02
Phenols (Total)	<0.01
Antimony	<0.020
Arsenic	<0.010
Beryllium	<0.005
Cadmium	<0.005
Chromium	<0.010
Copper	<0.020
Lead	<0.005
Mercury	<0.0002
Nickel	<0.040
Selenium	<0.005
Silver	<0.010
Thallium	<0.010
Zinc	<0.020

Ref. No. 22p.130

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Attn: Dr. C. Binning
N.J. Lab Certification ID #12064

Job #: 529042
Date: 10/25/88
Auth: 9/13/88
Lot #: E809127
Invoice #: I02050
Sample Date: 9/13/88

REPORT OF ANALYSIS

Pesticide and PCB Compounds (by GC)	E809127-01 Field Blank (ug/L)
Aldrin	ND
BHC-alpha	ND
BHC-beta	ND
BHC-gamma (lindane)	ND
BHC-delta	ND
Chlordane	ND
4,4'-DDD	ND
4,4'-DDE	ND
4,4'-DDT	ND
Dieldrin	ND
Endosulfan I	ND
Endosulfan II	ND
Endosulfan Sulfate	ND
Endrin	ND
Endrin Aldehyde	ND
Heptachlor	ND
Heptachlor Epoxide	ND
Toxaphene	ND
PCB-1016	ND
PCB-1221	ND
PCB-1232	ND
PCB-1242	ND
PCB-1248	ND
PCB-1254	ND
PCB-1260	ND

ND - Nondetectable less than 0.2 ug/L for Pesticides and less than 0.5 ug/L for PCB's and Toxaphene.

Ref. No. 22p. 131
000035

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Essex Chemical Corporation
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Attn: Dr. C. Binning
N.J. Lab Certification ID #12064

Job #: 529042
Date: 10/25/88
Auth: 9/13/88
Lot #: E809127
Invoice #: I02050
Sample Date: 9/13/88

REPORT OF ANALYSIS

	E809127-02 Stream (mg/L)
Cyanide (Total)	<0.02
Phenols (Total)	<0.01
Antimony	<0.020
Arsenic	<0.010
Beryllium	<0.005
Cadmium	0.005
Chromium	<0.010
Copper	0.037
Lead	0.014
Mercury	<0.0002
Nickel	<0.040
Selenium	<0.005
Silver	<0.010
Thallium	<0.010
Zinc	0.087

Ref. No. 22 p. 132

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N.J. Lab Certification ID #12064

Job #: 529042
Date: 10/25/88
Auth: 9/13/88
Lot #: E809127
Invoice #: I02050
Sample Date: 9/13/88

REPORT OF ANALYSIS

Pesticide and PCB Compounds (by GC)	E809127-02 Stream (ug/L)
Aldrin	ND
BHC-alpha	ND
BHC-beta	ND
BHC-gamma (lindane)	ND
BHC-delta	ND
Chlordane	ND
4,4'-DDD	ND
4,4'-DDE	ND
4,4'-DDT	ND
Dieldrin	ND
Endosulfan I	ND
Endosulfan II	ND
Endosulfan Sulfate	ND
Endrin	ND
Endrin Aldehyde	ND
Heptachlor	ND
Heptachlor Epoxide	ND
Toxaphene	ND
PCB-1016	ND
PCB-1221	ND
PCB-1232	ND
PCB-1242	ND
PCB-1248	ND
PCB-1254	ND
PCB-1260	ND

ND - Nondetectable less than 0.2 ug/L for Pesticides and less than 0.5 ug/L for PCB's and Toxaphene.

Ref. No. 22 p. 133

Regional Office
165 Fieldcrest Avenue • P.O. Box 7809 • Edison, New Jersey 08818-7809 • 201-225-2000

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TABLE 1

WATER ANALYSIS SUMMARY
OF VOLATILE PRIORITY POLLUTANT COMPOUNDS
FOR ESSEX
PROJECT NO. 529042

PARAMETER	CAS NUMBER(1)	SAMPLE IDENTIFICATION E809124-01 OW/1S	E809124-02 OW/1D	E809124-03 OW/2S	E809124-04 OW/3S
		Concentration ug/ℓ(2)			
Acrolein	107-02-8	ND10	ND10	ND10	ND10
Acrylonitrile	107-13-1	ND10	ND10	ND10	ND10
Benzene	71-43-2	ND5.0	ND5.0	ND5.0	ND5.0
Bromoform	75-25-2	ND5.0	ND5.0	ND5.0	ND5.0
Carbon Tetrachloride	56-23-5	ND5.0	ND5.0	ND5.0	ND5.0
Chlorobenzene	108-90-7	ND5.0	ND5.0	ND5.0	ND5.0
Chlorodibromomethane	124-48-1	ND5.0	ND5.0	ND5.0	ND5.0
Chloroethane	75-00-3	ND10	ND10	ND10	ND10
2-Chloroethylvinyl ether	110-75-8	ND10	ND10	ND10	ND10
Chloroform	67-66-3	ND5.0	ND5.0	ND5.0	ND5.0
Dichlorobromomethane	75-27-4	ND5.0	ND5.0	ND5.0	ND5.0
1,1-Dichloroethane	75-34-3	ND5.0	ND5.0	ND5.0	ND5.0
1,2-Dichloroethane	107-06-2	ND5.0	ND5.0	ND5.0	ND5.0
1,1-Dichloroethylene	75-35-04	ND5.0	ND5.0	ND5.0	ND5.0
1,2-Dichloropropane	78-87-5	ND5.0	ND5.0	ND5.0	ND5.0
1,3-Dichloropropylene	542-75-6	ND5.0	ND5.0	ND5.0	ND5.0
Ethylbenzene	100-41-4	ND5.0	ND5.0	ND5.0	ND5.0
Methyl bromide	74-83-9	ND10	ND10	ND10	ND10
Methyl chloride	74-87-3	ND10	ND10	ND10	ND10
Methylene chloride(3)	75-09-2	14	13	6.8	15
1,1,2,2-Tetrachloroethane	79-34-5	ND5.0	ND5.0	ND5.0	ND5.0
Tetrachloroethylene	127-18-4	ND5.0	ND5.0	ND5.0	ND5.0
Toluene	108-88-3	ND5.0	ND5.0	ND5.0	ND5.0
trans-1,2-Dichloroethylene	156-60-5	ND5.0	ND5.0	ND5.0	ND5.0
1,1,1-Trichloroethane	71-55-6	ND5.0	ND5.0	ND5.0	ND5.0
1,1,2-Trichloroethane	79-00-5	ND5.0	ND5.0	ND5.0	ND5.0
Trichloroethylene	79-01-6	ND5.0	ND5.0	ND5.0	ND5.0
Vinyl Chloride	75-01-4	ND10	ND10	ND10	ND10

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Ref. No. 22 P. 134

TABLE 1
(Continued)

PARAMETER	CAS NUMBER[1]	SAMPLE IDENTIFICATION E809125-01 OW/3D	E809125-02 OW/4S	E809125-03 OW/4D	E809125-04 OW/106S
		Concentration µg/ℓ[2]			
Acrolein	107-02-8	ND10	ND10	ND10	ND10
Acrylonitrile	107-13-1	ND10	ND10	ND10	ND10
Benzene	71-43-2	ND5.0	ND5.0	ND5.0	ND5.0
Bromoform	75-25-2	ND5.0	ND5.0	ND5.0	ND5.0
Carbon Tetrachloride	56-23-5	ND5.0	ND5.0	ND5.0	ND5.0
Chlorobenzene	108-90-7	ND5.0	ND5.0	ND5.0	ND5.0
Chlorodibromomethane	124-48-1	ND5.0	ND5.0	ND5.0	ND5.0
Chloroethane	75-00-3	ND10	ND10	ND10	ND10
2-Chloroethylvinyl ether	110-75-8	ND10	ND10	ND10	ND10
Chloroform	67-66-3	ND5.0	ND5.0	ND5.0	ND5.0
Dichlorobromomethane	75-27-4	ND5.0	ND5.0	ND5.0	ND5.0
1,1-Dichloroethane	75-34-3	ND5.0	ND5.0	ND5.0	ND5.0
1,2-Dichloroethane	107-06-2	ND5.0	ND5.0	ND5.0	ND5.0
1,1-Dichloroethylene	75-35-04	ND5.0	ND5.0	ND5.0	ND5.0
1,2-Dichloropropane	78-87-5	ND5.0	ND5.0	ND5.0	ND5.0
1,3-Dichloropropylene	542-75-6	ND5.0	ND5.0	ND5.0	ND5.0
Ethylbenzene	100-41-4	ND5.0	ND5.0	ND5.0	ND5.0
Methyl bromide	74-83-9	ND10	ND10	ND10	ND10
Methyl chloride	74-87-3	ND10	ND10	ND10	ND10
Methylene chloride[3]	75-09-2	14	13	5.5	6.4
1,1,2,2-Tetrachloroethane	79-34-5	ND5.0	ND5.0	ND5.0	ND5.0
Tetrachloroethylene	127-18-4	ND5.0	ND5.0	ND5.0	ND5.0
Toluene	108-88-3	ND5.0	ND5.0	ND5.0	ND5.0
trans-1,2-Dichloroethylene	156-60-5	ND5.0	ND5.0	ND5.0	ND5.0
1,1,1-Trichloroethane	71-55-6	ND5.0	ND5.0	ND5.0	ND5.0
1,1,2-Trichloroethane	79-00-5	ND5.0	ND5.0	ND5.0	ND5.0
Trichloroethylene	79-01-6	ND5.0	ND5.0	ND5.0	ND5.0
Vinyl Chloride	75-01-4	ND10	ND10	ND10	ND10

Ref. No. 22 p. 135

TABLE 1
(Continued)

PARAMETER	CAS NUMBER(1)	SAMPLE IDENTIFICATION E809126-01 OW/106D	E809126-02 OW/107S	E809..6-03 OW/111S	E809126-04 OW/111D
		Concentration µg/ℓ(2)			
Acrolein	107-02-8	ND10	ND100	ND10	ND10
Acrylonitrile	107-13-1	ND10	ND100	ND10	ND10
Benzene	71-43-2	ND5.0	ND50	ND5.0	ND5.0
Bromoform	75-25-2	ND5.0	ND50	ND5.0	ND5.0
Carbon Tetrachloride	56-23-5	ND5.0	ND50	ND5.0	ND5.0
Chlorobenzene	108-90-7	ND5.0	ND50	ND5.0	ND5.0
Chlorodibromomethane	124-48-1	ND5.0	ND50	ND5.0	ND5.0
Chloroethane	75-00-3	ND10	ND100	ND10	ND10
2-Chloroethylvinyl ether	110-75-8	ND10	ND100	ND10	ND10
Chloroform	67-66-3	ND5.0	ND50	ND5.0	ND5.0
Dichlorobromomethane	75-27-4	ND5.0	ND50	ND5.0	ND5.0
1,1-Dichloroethane	75-34-3	ND5.0	ND50	ND5.0	ND5.0
1,2-Dichloroethane	107-06-2	ND5.0	ND50	ND5.0	ND5.0
[illegible]-Dichloroethylene	75-35-04	ND5.0	ND50	ND5.0	ND5.0
1,2-Dichloropropane	78-87-5	ND5.0	ND50	ND5.0	ND5.0
1,3-Dichloropropylene	542-75-6	ND5.0	ND50	ND5.0	ND5.0
Ethylbenzene	100-41-4	ND5.0	ND50	ND5.0	ND5.0
Methyl bromide	74-83-9	ND10	ND100	ND10	ND10
Methyl chloride	74-87-3	ND10	ND100	ND10	ND10
Methylene chloride(3)	75-09-2	6.0	230	5.6	5.6
1,1,2,2-Tetrachloroethane	79-34-5	ND5.0	ND50	ND5.0	ND5.0
Tetrachloroethylene	127-18-4	ND5.0	ND50	ND5.0	ND5.0
Toluene	108-88-3	ND5.0	ND50	ND5.0	ND5.0
trans-1,2-Dichloroethylene	156-60-5	ND5.0	ND50	ND5.0	ND5.0
1,1,1-Trichloroethane	71-55-6	ND5.0	ND50	ND5.0	ND5.0
1,1,2-Trichloroethane	79-00-5	ND5.0	ND50	ND5.0	ND5.0
Trichloroethylene	79-01-6	ND5.0	ND50	ND5.0	ND5.0
Vinyl Chloride	75-01-4	ND10	ND100	ND10	ND10

Ref. No. 22 p. 136

TABLE I
(Continued)

PARAMETER	CAS NUMBER(1)	SAMPLE IDENTIFICATION E809127-01 Field Blank	E809127-02 Stream	E809127-03 Travel Blank
		Concentration µg/l(2)		
Acrolein	107-02-8	ND10	ND10	ND10
Acrylonitrile	107-13-1	ND10	ND10	ND10
Benzene	71-43-2	ND5.0	ND5.0	ND5.0
Bromoform	75-25-2	ND5.0	ND5.0	ND5.0
Carbon Tetrachloride	56-23-5	ND5.0	ND5.0	ND5.0
Chlorobenzene	108-90-7	ND5.0	ND5.0	ND5.0
Chlorodibromomethane	124-48-1	ND5.0	ND5.0	ND5.0
Chloroethane	75-00-3	ND10	ND10	ND10
2-Chloroethylvinyl ether	110-75-8	ND10	ND10	ND10
Chloroform	67-66-3	ND5.0	ND5.0	ND5.0
Dichlorobromomethane	75-27-4	ND5.0	ND5.0	ND5.0
1,1-Dichloroethane	75-34-3	ND5.0	ND5.0	ND5.0
1,2-Dichloroethane	107-06-2	ND5.0	ND5.0	ND5.0
1,1-Dichloroethylene	75-35-04	ND5.0	ND5.0	ND5.0
1,2-Dichloropropane	78-87-5	ND5.0	ND5.0	ND5.0
1,3-Dichloropropylene	542-75-6	ND5.0	ND5.0	ND5.0
Ethylbenzene	100-41-4	ND5.0	ND5.0	ND5.0
Methyl bromide	74-83-9	ND10	ND10	ND10
Methyl chloride	74-87-3	ND10	ND10	ND10
Methylene chloride(3)	75-09-2	6.1	6.0	5.0
1,1,2,2-Tetrachloroethane	79-34-5	ND5.0	ND5.0	ND5.0
Tetrachloroethylene	127-18-4	ND5.0	ND5.0	ND5.0
Toluene	108-88-3	ND5.0	ND5.0	ND5.0
trans-1,2-Dichloroethylene	156-60-5	ND5.0	ND5.0	ND5.0
1,1,1-Trichloroethane	71-55-6	ND5.0	ND5.0	ND5.0
1,1,2-Trichloroethane	79-00-5	ND5.0	ND5.0	ND5.0
Trichloroethylene	79-01-6	ND5.0	ND5.0	ND5.0
Vinyl Chloride	75-01-4	ND10	ND10	ND10

Ref. No. 22p.137

TABLE 4

VOA COMPOUND
LIBRARY SEARCH SUMMARY
FOR ESSEX
PROJECT NO. 529042

COMPOUND	SCAN NUMBER (based on a two second scan)	ESTIMATED CONCENTRATION µg/ℓ
Sample Identification: E809124-01 OW/1S		
1. Ethane,1,1,2-trichloro-1,2,2-trifluoro-	350	5.7
Sample Identification: E809124-02 OW/1D		
1. Methane, dichlorodifluoro-	91	5.4
2. Ethane,1,1,2-trichloro-1,2,2-trifluoro-	351	5.4
Sample Identification: E809124-03 OW/2S		
1. Ethane,1,1,2-trichloro-1,2,2-trifluoro-	347	3.2
Sample Identification: E809124-04 OW/3S		
1. Ethane,1,1,2-trichloro-1,2,2-trifluoro-	351	7.1

Ref. No. 22 p. 138

TABLE 4
(Continued)

COMPOUND	SCAN NUMBER (based on a two second scan)	ESTIMATED CONCENTRATION ug/l
Sample Identification: E809125-01 OW/3D		
1. Methane, dichlorodifluoro-	89	2.8
2. Ethane,1,1,2-trichloro-1,2,2-trifluoro-	350	7.1
Sample Identification: E809125-02 OW/4S		
1. Methane, dichlorodifluoro-	90	7.6
2. Ethane,1,1,2-trichloro-1,2,2-trifluoro-	351	6.9
Sample Identification: E809125-03 OW/4D		
1. Ethane,1,1,2-trichloro-1,2,2-trifluoro-	348	2.3
Sample Identification: E809125-04 OW/106S		
1. Acetone(1)	194	3.8
2. Ethane,1,1,2-trichloro-1,2,2-trifluoro-	348	3.2

Ref. No. 22 p. 139

TABLE 4
(Continued)

COMPOUND	SCAN NUMBER (based on a two second scan)	ESTIMATED CONCENTRATI ug/l
Sample Identification: E809126-01 OW/106D		
1. Ethane,1,1,2-trichloro-1,2,2-trifluoro-	347	3.4
2. Unknown	399	11
3. Acetone(1)	193	2.6
Sample Identification: E809126-02 OW/107S		
1. Methane, dichlorodifluoro-	67	65
2. Ethane,1,1,2-trichloro-1,2,2-trifluoro-	347	130
3. m-Xylene(1)	913	290
4. o,p-Xylene(1)	942	110
Sample Identification: E809126-03 OW/111S		
1. Ethane,1,1,2-trichloro-1,2,2-trifluoro-	348	1.9
Sample Identification: E809126-04 OW/111D		
1. Ethane,1,1,2-trichloro-1,2,2-trifluoro-	348	2.7

Ref. No. 22p. 140

TABLE 4
(Continued)

COMPOUND	SCAN NUMBER (based on a two second scan)	ESTIMATED CONCENTRATION ug/l
Sample Identification: E809127-01 Field Blank		
1. Ethane,1,1,2-trichloro-1,2,2-trifluoro-	347	2.9
2. Acetone(1)	194	14
Sample Identification: E809127-02 Stream		
1. Ethane,1,1,2-trichloro-1,2,2-trifluoro-	348	3.8
2. Unknown	399	6.0
Sample Identification: E809127-03 Travel Blank		
1. Ethane,1,1,2-trichloro-1,2,2-trifluoro-	348	5.9
Sample Identification: VLBK-01 09-26-88		
1. Ethane,1,1,2-trichloro-1,2,2-trifluoro-	348	8.3
Sample Identification: VLBK-02 09-27-88		
1. Methane, dichlorodifluoro-	91	8.7
2. Ethane,1,1,2-trichloro-1,2,2-trifluoro-	352	6.2

(1) The compound was identified on the HSL quantitation list but was calculated as a tentatively identified compound using an arbitrary response factor of 1.0

Ref. No. 22 p. 141

TABLE 1

WATER ANALYSIS SUMMARY
OF SEMIVOLATILE COMPOUNDS
FOR ESSEX
PROJECT NO. 529042

PARAMETER	CAS NUMBER(1)	SAMPLE IDENTIFICATION E809124-01 OW/1S	E809124-02 OW/1D	E809124-03 OW/2S	E809124-04 OW/3S
		Concentration µg/ℓ(2)			
Acenaphthene	83-32-9	ND10	ND10	ND10	ND10
Acenaphthylene	208-96-8	ND10	ND10	ND10	ND10
Anthracene	120-12-7	ND10	ND10	ND10	ND10
Benzidine	92-87-5	ND50	ND50	ND50	ND50
Benzo(a)anthracene	56-55-3	ND10	ND10	ND10	ND10
Benzo(a)pyrene	50-32-8	ND10	ND10	ND10	ND10
Benzo(b)fluoranthene	205-99-2	ND10	ND10	ND10	ND10
Benzo(g,h,i)perylene	191-24-2	ND10	ND10	ND10	ND10
Benzo(k)fluoranthene	207-08-9	ND10	ND10	ND10	ND10
Bis(2-chloroethoxy)methane	111-91-1	ND10	ND10	ND10	ND10
Bis(2-chloroethyl)ether	111-44-4	ND10	ND10	ND10	ND10
Bis(2-chloroisopropyl)ether	39638-32-9	ND10	ND10	ND10	ND10
Bis(2-ethylhexyl)phthalate	117-81-7	10	11	ND10	ND10
4-Bromophenyl-phenyl ether	101-55-3	ND10	ND10	ND10	ND10
Butyl benzyl phthalate	85-68-7	ND10	ND10	ND10	ND10
4-Chloro-3-methylphenol	59-50-7	ND10	ND10	ND10	ND10
2-Chloronaphthalene	91-58-7	ND10	ND10	ND10	ND10
2-Chlorophenol	95-57-8	ND10	ND10	ND10	ND10
4-Chlorophenyl phenyl ether	7005-72-3	ND10	ND10	ND10	ND10
Chrysene	218-01-9	ND10	ND10	ND10	ND10
Dibenzo(a,h)anthracene	53-70-3	ND10	ND10	ND10	ND10
1,2-Dichlorobenzene	95-50-1	ND10	ND10	ND10	ND10
1,3-Dichlorobenzene	541-73-1	ND10	ND10	ND10	ND10
1,4-Dichlorobenzene	106-46-7	ND10	ND10	ND10	ND10
3,3'-Dichlorobenzidine	91-94-1	ND20	ND20	ND20	ND20
2,4-Dichlorophenol	51-28-5	ND50	ND50	ND50	ND50
Diethyl phthalate	84-66-2	ND10	ND10	ND10	ND10
2,4-Dimethylphenol	105-67-9	ND10	ND10	ND10	ND10

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Ref. No. 22 p. 142

TABLE 1
(Continued)

PARAMETER	CAS NUMBER(1)	SAMPLE IDENTIFICATION E809124-01 OW/1S	E809124-02 OW/1D	E809124-03 OW/2S	E809124-04 OW/3S
		Concentration µg/ℓ(2)			
Dimethyl phthalate	131-11-3	ND10	ND10	ND10	ND10
Di-n-butyl phthalate	84-74-2	ND10	ND10	ND10	ND10
2,4-Dinitrotoluene	121-14-2	ND10	ND10	ND10	ND10
2,4-Dinitrophenol	51-28-2	ND50	ND50	ND50	ND50
2,6-Dinitrotoluene	606-20-2	ND10	ND10	ND10	ND10
Di-n-octyl phthalate	117-84-0	ND10	ND10	ND10	ND10
1,2-Diphenylhydrazine (Azobenzene)(3)	122-66-7	ND10	ND10	ND10	ND10
Fluoranthene	206-44-0	ND10	ND10	ND10	ND10
Fluorene	86-73-7	ND10	ND10	ND10	ND10
Hexachlorobenzene	118-71-1	ND10	ND10	ND10	ND10
Hexachlorobutadiene	87-68-3	ND10	ND10	ND10	ND10
Hexachlorocyclopentadiene	77-47-4	ND10	ND10	ND10	ND10
Hexachloroethane	67-72-1	ND10	ND10	ND10	ND10
Indeno(1,2,3-cd)pyrene	193-39-5	ND10	ND10	ND10	ND10
Isophorone	78-59-1	ND10	ND10	ND10	ND10
2-Methyl-4,6-Dinitrophenol	534-52-1	ND50	ND50	ND50	ND50
Naphthalene	91-20-3	ND10	ND10	ND10	ND10
Nitrobenzene	98-95-3	ND10	ND10	ND10	ND10
2-Nitrophenol	88-75-5	ND10	ND10	ND10	ND10
4-Nitrophenol	100-02-7	ND50	ND50	ND50	ND50
N-Nitrosodimethylamine	62-75-9	ND10	ND10	ND10	ND10
4-Nitrosodi-n-propylamine	621-64-7	ND10	ND10	ND10	ND10
N-Nitrosodiphenylamine (Diphenylamine)(3)	86-30-6	ND10	ND10	ND10	ND10
Pentachlorophenol	87-86-5	ND50	ND50	ND50	ND50
Phenanthrene	85-01-8	ND10	ND10	ND10	ND10
Phenol	108-95-2	ND10	ND10	ND10	ND10
Pyrene	129-00-0	ND10	ND10	ND10	ND10
1,2,4-Trichlorobenzene	120-82-1	ND10	ND10	ND10	ND10
2,4,6-Trichlorophenol	88-06-2	ND10	ND10	ND10	ND10

Ref. No. 22p. 143

TABLE 1
(Continued)

PARAMETER	CAS NUMBER(1)	SAMPLE IDENTIFICATION E809125-01 OW/3D	E809125-02 OW/4S	E809125-03 OW/4D	E809125-04 OW/106S
		Concentration µg/ℓ(2)			
Acenaphthene	83-32-9	ND10	ND10	ND10	ND10
Acenaphthylene	208-96-8	ND10	ND10	ND10	ND10
Anthracene	120-12-7	ND10	ND10	ND10	ND10
Benzidine	92-87-5	ND50	ND50	ND50	ND50
Benzo(a)anthracene	56-55-3	ND10	ND10	ND10	ND10
Benzo(a)pyrene	50-32-8	ND10	ND10	ND10	ND10
Benzo(b)fluoranthene	205-99-2	ND10	ND10	ND10	ND10
Benzo(g,h,i)perylene	191-24-2	ND10	ND10	ND10	ND10
Benzo(k)fluoranthene	207-08-9	ND10	ND10	ND10	ND10
Bis(2-chloroethoxy)methane	111-91-1	ND10	ND10	ND10	ND10
Bis(2-chloroethyl)ether	111-44-4	ND10	ND10	ND10	ND10
Bis(2-chloroisopropyl)ether	39638-32-9	ND10	ND10	ND10	ND10
Bis(2-ethylhexyl)phthalate	117-81-7	13	19	ND10	14
[illegible]omophenyl-phenyl ether	101-55-3	ND10	ND10	ND10	ND10
Butyl benzyl phthalate	85-68-7	ND10	ND10	ND10	ND10
4-Chloro-3-methylphenol	59-50-7	ND10	ND10	ND10	ND10
2-Chloronaphthalene	91-58-7	ND10	ND10	ND10	ND10
2-Chlorophenol	95-57-8	ND10	ND10	ND10	ND10
4-Chlorophenyl phenyl ether	7005-72-3	ND10	ND10	ND10	ND10
Chrysene	218-01-9	ND10	ND10	ND10	ND10
Dibenzo(a,h)anthracene	53-70-3	ND10	ND10	ND10	ND10
1,2-Dichlorobenzene	95-50-1	ND10	ND10	ND10	ND10
1,3-Dichlorobenzene	541-73-1	ND10	ND10	ND10	ND10
1,4-Dichlorobenzene	106-46-7	ND10	ND10	ND10	ND10
3,3'-Dichlorobenzidine	91-94-1	ND20	ND20	ND20	ND20
2,4-Dichlorophenol	51-28-5	ND50	ND50	ND50	ND50
Diethyl phthalate	84-66-2	ND10	ND10	ND10	ND10
2,4-Dimethylphenol	105-67-9	ND10	ND10	ND10	ND10

Ref No. 22 P. 144

TABLE 1
(Continued)

PARAMETER	CAS NUMBER(1)	SAMPLE IDENTIFICATION E809125-01 OW/3D	E809125-02 OW/4S	E809125-03 OW/4D	E809125-04 OW/106S
		Concentration µg/ℓ(2)			
Dimethyl phthalate	131-11-3	ND10	ND10	ND10	ND10
Di-n-butyl phthalate	84-74-2	ND10	ND10	ND10	ND10
2,4-Dinitrotoluene	121-14-2	ND10	ND10	ND10	ND10
2,4-Dinitrophenol	51-28-2	ND50	ND50	ND50	ND50
2,6-Dinitrotoluene	606-20-2	ND10	ND10	ND10	ND10
Di-n-octyl phthalate	117-84-0	ND10	ND10	ND10	ND10
1,2-Diphenylhydrazine (Azobenzene)(3)	122-66-7	ND10	ND10	ND10	ND10
Fluoranthene	206-44-0	ND10	ND10	ND10	ND10
Fluorene	86-73-7	ND10	ND10	ND10	ND10
Hexachlorobenzene	118-71-1	ND10	ND10	ND10	ND10
Hexachlorobutadiene	87-68-3	ND10	ND10	ND10	ND10
Hexachlorocyclopentadiene	77-47-4	ND10	ND10	ND10	ND10
Hexachloroethane	67-72-1	ND10	ND10	ND10	ND10
Indeno(1,2,3-cd)pyrene	193-39-5	ND10	ND10	ND10	ND10
Isophorone	78-59-1	ND10	ND10	ND10	ND10
2-Methyl-4,6-Dinitrophenol	534-52-1	ND50	ND50	ND50	ND50
Naphthalene	91-20-3	ND10	ND10	ND10	ND10
Nitrobenzene	98-95-3	ND10	ND10	ND10	ND10
2-Nitrophenol	88-75-5	ND10	ND10	ND10	ND10
4-Nitrophenol	100-02-7	ND50	ND50	ND50	ND50
N-Nitrosodimethylamine	62-75-9	ND10	ND10	ND10	ND10
4-Nitrosodi-n-propylamine	621-64-7	ND10	ND10	ND10	ND10
N-Nitrosodiphenylamine (Diphenylamine)(3)	86-30-6	ND10	ND10	ND10	ND10
Pentachlorophenol	87-86-5	ND50	ND50	ND50	ND50
Phenanthrene	85-01-8	ND10	ND10	ND10	ND10
Phenol	108-95-2	ND10	ND10	ND10	ND10
Pyrene	129-00-0	ND10	ND10	ND10	ND10
1,2,4-Trichlorobenzene	120-82-1	ND10	ND10	ND10	ND10
2,4,6-Trichlorophenol	88-06-2	ND10	ND10	ND10	ND10

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Ref. No. 22 p. 145

TABLE 1
(Continued)

PARAMETER	CAS NUMBER(1)	SAMPLE IDENTIFICATION E809126-01 OW/106D	E809126-02 OW/107S	E809126-03 OW/111S	E809126-04 OW/111D
		Concentration µg/ℓ(2)			
Acenaphthene	83-32-9	ND10	ND10	ND10	ND10/ND20(4
Acenaphthylene	208-96-8	ND10	ND10	ND10	ND10/ND20
Anthracene	120-12-7	ND10	ND10	ND10	ND10/ND20
Benzidine	92-87-5	ND50	ND50	ND50	ND50/ND100
Benzo(a)anthracene	56-55-3	ND10	ND10	ND10	ND10/ND20
Benzo(a)pyrene	50-32-8	ND10	ND10	ND10	ND10/ND20
Benzo(b)fluoranthene	205-99-2	ND10	ND10	ND10	ND10/ND20
Benzo(g,h,i)perylene	191-24-2	ND10	ND10	ND10	ND10/ND20
Benzo(k)fluoranthene	207-08-9	ND10	ND10	ND10	ND10/ND20
Bis(2-chloroethoxy)methane	111-91-1	ND10	ND10	ND10	ND10/ND20
Bis(2-chloroethyl)ether	111-44-4	ND10	ND10	ND10	ND10/ND20
Bis(2-chloroisopropyl)ether	39638-32-9	ND10	ND10	ND10	ND10/ND20
Bis(2-ethylhexyl)phthalate	117-81-7	ND10	14	11	20/20
4-Bromophenyl-phenyl ether	101-55-3	ND10	ND10	ND10	ND10/ND20
Butyl benzyl phthalate	85-68-7	ND10	ND10	ND10	ND10/ND20
4-Chloro-3-methylphenol	59-50-7	ND10	ND10	ND10	ND10/ND20
2-Chloronaphthalene	91-58-7	ND10	ND10	ND10	ND10/ND20
2-Chlorophenol	95-57-8	ND10	ND10	ND10	ND10/ND20
4-Chlorophenyl phenyl ether	7005-72-3	ND10	ND10	ND10	ND10/ND20
Chrysene	218-01-9	ND10	ND10	ND10	ND10/ND20
Dibenzo(a,h)anthracene	53-70-3	ND10	ND10	ND10	ND10/ND20
1,2-Dichlorobenzene	95-50-1	ND10	ND10	ND10	ND10/ND20
1,3-Dichlorobenzene	541-73-1	ND10	ND10	ND10	ND10/ND20
1,4-Dichlorobenzene	106-46-7	ND10	ND10	ND10	ND10/ND20
3,3'-Dichlorobenzidine	91-94-1	ND20	ND20	ND20	ND20/ND40
2,4-Dichlorophenol	51-28-5	ND50	ND50	ND50	ND50/ND100
Diethyl phthalate	84-66-2	ND10	ND10	ND10	ND10/ND10
2,4-Dimethylphenol	105-67-9	ND10	ND10	ND10	ND10/ND10

Ref. No. 22 p. 146

TABLE 1
(Continued)

PARAMETER	CAS NUMBER(1)	SAMPLE IDENTIFICATION E809126-01 OW/106D	E809126-02 OW/107S	E809126-03 OW/111S	E809126-04 OW/111D
		Concentration µg/ℓ(2)			
Dimethyl phthalate	131-11-3	ND10	ND10	ND10	ND10/ND20
Di-n-butyl phthalate	84-74-2	ND10	ND10	ND10	ND10/ND20
2,4-Dinitrotoluene	121-14-2	ND10	ND10	ND10	ND10/ND20
2,4-Dinitrophenol	51-28-2	ND50	ND50	ND50	ND50/ND100
2,6-Dinitrotoluene	606-20-2	ND10	ND10	ND10	ND10/ND20
Di-n-octyl phthalate	117-84-0	ND10	ND10	ND10	ND10/ND20
1,2-Diphenylhydrazine (Azobenzene)(3)	122-66-7	ND10	ND10	ND10	ND10/ND20
Fluoranthene	206-44-0	ND10	ND10	ND10	ND10/ND20
Fluorene	86-73-7	ND10	ND10	ND10	ND10/ND20
Hexachlorobenzene	118-71-1	ND10	ND10	ND10	ND10/ND20
Hexachlorobutadiene	87-68-3	ND10	ND10	ND10	ND10/ND20
Hexachlorocyclopentadiene	77-47-4	ND10	ND10	ND10	ND10/ND20
Hexachloroethane	67-72-1	ND10	ND10	ND10	ND10/ND20
Indeno(1,2,3-cd)pyrene	193-39-5	ND10	ND10	ND10	ND10/ND20
Isophorone	78-59-1	ND10	ND10	ND10	ND10/ND20
2-Methyl-4,6-Dinitrophenol	534-52-1	ND50	ND50	ND50	ND50/ND100
Naphthalene	91-20-3	ND10	ND10	ND10	ND10/ND20
Nitrobenzene	98-95-3	ND10	ND10	ND10	ND10/ND20
2-Nitrophenol	88-75-5	ND10	ND10	ND10	ND10/ND20
4-Nitrophenol	100-02-7	ND50	ND50	ND50	ND50/ND100
N-Nitrosodimethylamine	62-75-9	ND10	ND10	ND10	ND10/ND20
4-Nitrosodi-n-propylamine	621-64-7	ND10	ND10	ND10	ND10/ND20
N-Nitrosodiphenylamine (Diphenylamine)(3)	86-30-6	ND10	ND10	ND10	ND10/ND20
Pentachlorophenol	87-86-5	ND50	ND50	ND50	ND50/ND100
Phenanthrene	85-01-8	ND10	ND10	ND10	ND10/ND20
Phenol	108-95-2	ND10	ND10	ND10	ND10/ND20
Pyrene	129-00-0	ND10	ND10	ND10	ND10/ND20
1,2,4-Trichlorobenzene	120-82-1	ND10	ND10	ND10	ND10/ND20
2,4,6-Trichlorophenol	88-06-2	ND10	ND10	ND10	ND10/ND20

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TABLE 1
(Continued)

PARAMETER	CAS NUMBER[1]	SAMPLE IDENTIFICATION E809127-01 Field Blank	E809127-02 Stream
		Concentration ug/ℓ[2]	
Acenaphthene	83-32-9	ND10	ND10/ND50[4]
Acenaphthylene	208-96-8	ND10	ND10/ND50
Anthracene	120-12-7	ND10	ND10/ND50
Benzidine	92-87-5	ND50	ND50/ND250
Benzo(a)anthracene	56-55-3	ND10	ND10/ND50
Benzo(a)pyrene	50-32-8	ND10	ND10/ND50
Benzo(b)fluoranthene	205-99-2	ND10	ND10/ND50
Benzo(g,h,i)perylene	191-24-2	ND10	ND10/ND50
Benzo(k)fluoranthene	207-08-9	ND10	ND10/ND50
Bis(2-chloroethoxy)methane	111-91-1	ND10	ND10/ND50
Bis(2-chloroethyl)ether	111-44-4	ND10	ND10/ND50
Bis(2-chloroisopropyl)ether	39638-32-9	ND10	ND10/ND50
Bis(2-ethylhexyl)phthalate	117-81-7	ND10	700/1200
4-Bromophenyl-phenyl ether	101-55-3	ND10	ND10/ND50
Butyl benzyl phthalate	85-68-7	ND10	ND10/ND50
4-Chloro-3-methylphenol	59-50-7	ND10	ND10/ND50
2-Chloronaphthalene	91-58-7	ND10	ND10/ND50
2-Chlorophenol	95-57-8	ND10	ND10/ND50
4-Chlorophenyl phenyl ether	7005-72-3	ND10	ND10/ND50
Chrysene	218-01-9	ND10	ND10/ND50
Dibenzo(a,h)anthracene	53-70-3	ND10	ND10/ND50
1,2-Dichlorobenzene	95-50-1	ND10	ND10/ND50
1,3-Dichlorobenzene	541-73-1	ND10	ND10/ND50
1,4-Dichlorobenzene	106-46-7	ND10	ND10/ND50
3,3'-Dichlorobenzidine	91-94-1	ND20	ND20/ND100
2,4-Dichlorophenol	51-28-5	ND50	ND50/ND250
Diethyl phthalate	84-66-2	ND10	ND10/ND50
2,4-Dimethylphenol	105-67-9	ND10	ND10/ND50

TABLE 1
(Continued)

PARAMETER	CAS NUMBER(1)	SAMPLE IDENTIFICATION E809209-01 OW/4S	E809209-02 OW/4D	E809209-03 OW/106S	E809209-04 OW/106D
		Concentration µg/ℓ(2)			
Acenaphthene	83-32-9	ND10	ND10	ND10	ND10
Acenaphthylene	208-96-8	ND10	ND10	ND10	ND10
Anthracene	120-12-7	ND10	ND10	ND10	ND10
Benzidine	92-87-5	ND50	ND50	ND50	ND50
Benzo(a)anthracene	56-55-3	ND10	ND10	ND10	ND10
Benzo(a)pyrene	50-32-8	ND10	ND10	ND10	ND10
Benzo(b)fluoranthene	205-99-2	ND10	ND10	ND10	ND10
Benzo(g,h,i)perylene	191-24-2	ND10	ND10	ND10	ND10
Benzo(k)fluoranthene	207-08-9	ND10	ND10	ND10	ND10
Bis(2-chloroethoxy)methane	111-91-1	ND10	ND10	ND10	ND10
Bis(2-chloroethyl)ether	111-44-4	ND10	ND10	ND10	ND10
Bis(2-chloroisopropyl)ether	39638-32-9	ND10	ND10	ND10	ND10
Bis(2-ethylhexyl)phthalate	117-81-7	ND10	ND10	78	ND10
4-Bromophenyl-phenyl ether	101-55-3	ND10	ND10	ND10	ND10
Butyl benzyl phthalate	85-68-7	ND10	ND10	ND10	ND10
4-Chloro-3-methylphenol	59-50-7	ND10	ND10	ND10	ND10
2-Chloronaphthalene	91-58-7	ND10	ND10	ND10	ND10
2-Chlorophenol	95-57-8	ND10	ND10	ND10	ND10
4-Chlorophenyl phenyl ether	7005-72-3	ND10	ND10	ND10	ND10
Chrysene	218-01-9	ND10	ND10	ND10	ND10
Dibenzo(a,h)anthracene	53-70-3	ND10	ND10	ND10	ND10
1,2-Dichlorobenzene	95-50-1	ND10	ND10	ND10	ND10
1,3-Dichlorobenzene	541-73-1	ND10	ND10	ND10	ND10
1,4-Dichlorobenzene	106-46-7	ND10	ND10	ND10	ND10
3,3'-Dichlorobenzidine	91-94-1	ND20	ND20	ND20	ND20
2,4-Dichlorophenol	51-28-5	ND50	ND50	ND50	ND50
Diethyl phthalate	84-66-2	ND10	ND10	ND10	ND10
2,4-Dimethylphenol	105-67-9	ND10	ND10	ND10	ND10

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TABLE 1
(Continued)

PARAMETER	CAS NUMBER(1)	SAMPLE IDENTIFICATION E809209-01 OW/4S	E809209-02 OW/4D	E809209-03 OW/106S	E809209-[illegible] OW/106D
		Concentration µg/ℓ(2)			
Dimethyl phthalate	131-11-3	ND10	ND10	ND10	ND10
Di-n-butyl phthalate	84-74-2	ND10	ND10	ND10	ND10
2,4-Dinitrotoluene	121-14-2	ND10	ND10	ND10	ND10
2,4-Dinitrophenol	51-28-2	ND50	ND50	ND50	ND50
2,6-Dinitrotoluene	606-20-2	ND10	ND10	ND10	ND10
Di-n-octyl phthalate	117-84-0	ND10	ND10	ND10	ND10
1,2-Diphenylhydrazine (Azobenzene)(3)	122-66-7	ND10	ND10	ND10	ND10
Fluoranthene	206-44-0	ND10	ND10	ND10	ND10
Fluorene	86-73-7	ND10	ND10	ND10	ND10
Hexachlorobenzene	118-71-1	ND10	ND10	ND10	ND10
Hexachlorobutadiene	87-68-3	ND10	ND10	ND10	ND10
Hexachlorocyclopentadiene	77-47-4	ND10	ND10	ND10	ND10
Hexachloroethane	67-72-1	ND10	ND10	ND10	ND10
Indeno(1,2,3-cd)pyrene	193-39-5	ND10	ND10	ND10	ND10
Isophorone	78-59-1	ND10	ND10	ND10	ND10
2-Methyl-4,6-Dinitrophenol	534-52-1	ND50	ND50	ND50	ND50
Naphthalene	91-20-3	ND10	ND10	ND10	ND10
Nitrobenzene	98-95-3	ND10	ND10	ND10	ND10
2-Nitrophenol	88-75-5	ND10	ND10	ND10	ND10
4-Nitrophenol	100-02-7	ND50	ND50	ND50	ND50
N-Nitrosodimethylamine	62-75-9	ND10	ND10	ND10	ND10
4-Nitrosodi-n-propylamine	621-64-7	ND10	ND10	ND10	ND10
N-Nitrosodiphenylamine (Diphenylamine)(3)	86-30-6	ND10	ND10	ND10	ND10
Pentachlorophenol	87-86-5	ND50	ND50	ND50	ND50
Phenanthrene	85-01-8	ND10	ND10	ND10	ND10
Phenol	108-95-2	ND10	ND10	ND10	ND10
Pyrene	129-00-0	ND10	ND10	ND10	ND10
1,2,4-Trichlorobenzene	120-82-1	ND10	ND10	ND10	ND10
2,4,6-Trichlorophenol	88-06-2	ND10	ND10	ND10	ND10

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

OW-1S
E809124-01

Lab Name: ITAS-Pittsburgh Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) W Lab Sample ID: OW-1S

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 893

Level: (low/med) L Date Received: 9/13/88

% Moisture: not dec. — dec. — Date Extracted: 9/20/88

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 10/9/88

GPC Cleanup: (Y/N) ___ pH: ___ Dilution Factor: _____

Number TICs found: 5

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	4-methyl-3-pentene-2-one	4.75	24	
2. 0-00-0	Unknown	5.93	11	
3. 0-00-0	Unknown	23.23	8	
4. 0-00-0	Unknown	28.13	13	
5.	4-ethyl-5-methyl-heptanoamide	30.72	14	
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CW-1D
EX09124 02

Lab Name: ITAS Pittsburgh Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) W Lab Sample ID: OW-1D

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 906

Level: (low/med) L Date Received: 9/13/88

% Moisture: not dec. - dec. - Date Extracted: 9/20/88

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 10/10/88

GPC Cleanup: (Y/N) ___ pH: ___ Dilution Factor: _____

Number TICs found: 4

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. C-00-0	Unknown	28.12	17	
2.	44' [illegible]	30.03	27	
3. [illegible]	Unknown	30.72	13	
4. [illegible]	Unknown	34.30	100	
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

OW-2S
E809124 03

Lab Name: IIAS-Pittsburgh Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) W Lab Sample ID: OW-2S

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 891

Level: (low/med) L Date Received: 9/13/88

% Moisture: not dec. — dec. — Date Extracted: 9/20/88

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 10/9/88

GPC Cleanup: (Y/N) ___ pH: ___ Dilution Factor: _____

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Dichloromethane	5.27	1300	
2. 0-00-0	Unknown	6.02	12	
3. 0-00-0	Unknown	28.13	13	
4. 0-00-0	Column Bleed	32.05	20	
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

OW-35
EX09/24-04

Lab Name: ITAS-Pittsburgh Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) W Lab Sample ID: OW-35

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 894

Level: (low/med) L Date Received: 9/13/88

% Moisture: not dec. _____ dec. _____ Date Extracted: 9/20/88

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 10/9/88

GPC Cleanup: (Y/N) _____ pH: _____ Dilution Factor: _____

Number TICs found: 5

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	4-methyl-3-penten-2-one	4.90	37	
2. 0-00-0	Unknown	6.05	25	
3. 0-00-0	Unknown	28.13	10	
4. 0-00-0	Unknown	30.33	10	
5. 0-00-0	Unknown	34.30	46	
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

OW-3D
E30125-01

Lab Name: _____ Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) W Lab Sample ID: OW-3D

Sample wt/vol: 900 (g/mL) mL Lab File ID: 889

Level: (low/med) L Date Received: ~~9/20/88~~ 9/13/88

% Moisture: not dec. — dec. — Date Extracted: 9/20/88

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 10/9/88

GPC Cleanup: (Y/N) ___ pH: ___ Dilution Factor: _____

Number TICs found: 17 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 0000	Unknown	6.09	15	
2. 0000	Column Bleed	12.57	31	
3. 0000	Column Bleed	15.21	130	
4. 0000	Unknown	15.82	10	
5. 0000	Unknown	16.43	21	
6. 0000	Unknown	17.68	130	
7. 0000	Column Bleed	21.70	42	
8. 0000	Column Bleed	23.35	48	
9. 0000	Column Bleed	24.87	43	
10. 0000	Column Bleed	26.25	43	
11. 0000	Column Bleed	27.52	46	
12. 0000	Unknown	29.13	16	
13. 0000	Column Bleed	29.87	50	
14. 0000	Column Bleed	31.85	37	
15. 0000	Column Bleed	35.50	30	
16. 0000	Column Bleed	33.69	37	
17. 0000	Column Bleed	41.25	22	
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Ref. No: 22p. 155

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

OW-4S
E809125-02

Lab Name: ITAS-Pittsburgh Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) W Lab Sample ID: OW-4S

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 913

Level: (low/med) L Date Rece'ved: 9/13/88

% Moisture: not dec. — dec. — Date Extracted: 9/21/88

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 10/10/88

GPC Cleanup: (Y/N) ___ pH: ___ Dilution Factor: _____

Number TICs found: 5

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 0-00-0	Column Bleed	15.28	8	
2.	Phenol (+ethylhexyl) ester hexanedioic acid	27.32	8	
3. 0-00-0	Unknown	28.13	19	
4. 0-00-0	Unknown	30.72	49	
5. 0-00-0	Unknown	31.25	6	
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

OW 4D
E809125 03

Lab Name: IAS Pittsburgh Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) W Lab Sample ID: OW-4D

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 903

Level: (low/med) L Date Received: 9-13-88

% Moisture: not dec. - dec. - Date Extracted: 9/20/88

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 10/10/88

GPC Cleanup: (Y/N) ___ pH: ___ Dilution Factor: _____

Number TICs found: 5

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. [illegible]	Column Bleed	12.57	20	
2. [illegible]	Column Bleed	15.25	13	
3. [illegible]	Unknown	17.70	7	
4. [illegible]	Unknown	28.13	17	
5.	4,4' Bu[illegible]	30.03	12	
6.	5 [illegible] phenol			
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

OW-1065
EX09125-04

Lab Name: JTAS Pittsburgh Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) W Lab Sample ID: OW-1065

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 914

Level: (low/med) L Date Received: 9/13/88

% Moisture: not dec. _____ dec. _____ Date Extracted: 9/21/88

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 10/10/88

GPC Cleanup: (Y/N) ___ pH: ___ Dilution Factor: _____

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 000	Unknown	28.13	9	
2.				
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
OW-106D
E809126-01

Lab Name: ITAS-Pittsburgh Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) W Lab Sample ID: OW-106D

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 915

Level: (low/med) L Date Received: 9/13/88

% Moisture: not dec. - dec. - Date Extracted: 9/21/88

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 10/10/88

GPC Cleanup: (Y/N) ___ pH: ___ Dilution Factor: _____

Number TICs found: 2

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. [illegible]	Column Bleed	15.30	7	
2. [illegible]	Unknown	28.13	16	
3.				
4.				
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

OW-1075
E801126-02

Lab Name: ITAS Pittsburgh Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) W Lab Sample ID: OW-1075

Sample wt/vol: 800 (g/mL) mL Lab File ID: 892

Level: (low/med) L Date Received: 9/13/88

% Moisture: not dec. — dec. — Date Extracted: 9/20/88

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 10/9/88

GPC Cleanup: (Y/N) ___ pH: ___ Dilution Factor: _____

Number TICs found: 22

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 0-00-0	Unknown	5.98	24	
2.	2,3,5-Trimethylhexane	9.55	9	
3. 0-00-0	Unknown	9.68	11	
4. 0-00-0	Unknown	23.65	11	
5. 0-00-0	Unknown	24.27	58	
6. 0-00-0	Unknown	24.47	14	
7. 0-00-0	Unknown	26.00	27	
8. 0-00-0	Unknown	26.20	30	
9.	3-hydroxy-3,5-dimethyl-2-hexanone	26.68	42	
10. 0-00-0	Unknown	26.85	28	
11. 0-00-0	Unknown	28.13	30	
12. 0-00-0	Unknown	28.30	18	
13. 0-00-0	Unknown	28.43	3	
14. 0-00-0	Unknown	29.28	16	
15. 0-00-0	Unknown	29.15	65	
16. 0-00-0	Unknown	30.42	13	
17. 0-00-0	Unknown	30.58	29	
18. 0-00-0	Unknown	30.72	70	
19. 0-00-0	Unknown	31.83	41	
20. 0-00-0	Unknown	33.47	27	
21. 0-00-0	Unknown	33.72	13	
22. 0-00-0	Unknown	37.00	32	
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1P

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

OW-111S
EX07126-03

Lab Name: ITAS-Pittsburgh Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) W Lab Sample ID: OW-111S

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 895

Level: (low/med) L Date Received: 9/13/88

% Moisture: not dec. - dec. - Date Extracted: 9/20/88

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 10/9/88

GPC Cleanup: (Y/N) ___ pH: ___ Dilution Factor: _____

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 0-00-0	Unknown	28.13	16	
2. 0-00-0	Unknown	30.35	26	
3. 0-00-0	Unknown	37.08	5	
4. 0-00-0	Unknown	37.28	11	
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

CW-111D

EY09126-04

Lab Name: ITAS Pittsburgh Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) W Lab Sample ID: CW-111D

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 904

Level: (low/med) L Date Received: 9/13/88

% Moisture: not dec. _____ dec. _____ Date Extracted: 9/30/88

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 10/10/88

GPC Cleanup: (Y/N) ___ pH: ___ Dilution Factor: _____

Number TICs found: 5

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Dichloromethane	5.48	1300	
2. [illegible]	[illegible]	15.28	13	
3.	Monoethylhexyl phosphate [illegible]	27.33	8	
4. [illegible]	Unknown	28.12	25	
5. [illegible]	Unknown	30.03	10	
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

OW-111D Dup

Lab Name: 17AS-Pittsburgh Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) W

Lab Sample ID: OW-111D Dup

Sample wt/vol: 500 (g/mL) mL

Lab File ID: 911

Level: (low/med) _____

Date Received: 9/13/88

% Moisture: not dec. _____ dec. _____

Date Extracted: 9/20/88

Extraction: (SepF/Cont/Sonc) _____

Date Analyzed: 10/10/88

GPC Cleanup: (Y/N) _____ pH: _____

Dilution Factor: _____

Number TICs found: 4

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 0000	Column Bleed	15.30	16	
2. 0000	Column Bleed	30.07	21	
3. 0000	Unknown	30.47	61	
4. 0000	Unknown	28.13	40	
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Field Blank
E809127-01

Lab Name: IIAS [illegible] Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) W Lab Sample ID: Field Blank

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 905

Level: (low/med) L Date Received: 9/12/88

% Moisture: not dec. - dec. - Date Extracted: 9/20/88

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 10/10/88

GPC Cleanup: (Y/N) ___ pH: ___ Dilution Factor: _____

Number TICs found: 5

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 0-00-0	Unknown	6.02	6	
2. 0-00-0	Column Filled	15.28	15	
3. 0-00-0	Column Filled	17.76	18	
4. 0-00-0	Unknown	28.13	28	
5. 0-00-0	Unknown	36.08	36	
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E8 09/27 02
Stream 1 Sd.

Lab Name: ITAS-PITTSBURGH Contract: ESSEX

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) W Lab Sample ID: Stream 1 Sd 11

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 934

Level: (low/med) L Date Received: 9/13/88

% Moisture: not dec. - dec. - Date Extracted: 9/20/88

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 10/11/88

GPC Cleanup: (Y/N) ___ pH: ___ Dilution Factor: 10

Number TICs found: 3

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	COLUMN BLEED	~~3.57~~ 15.30	36	
2.	COLUMN BLEED	~~3.0~~ 17.70	30	
3.	COLUMN BLEED	31.30	30	
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

E 909709 01

Lab Name: ITAS-PITTSBURGH Contract: ESSEX

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) W Lab Sample ID: ES09209 01

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 920

Level: (low/med) L Date Received: 9/23/88

% Moisture: not dec. - dec. - Date Extracted: 9/27/88

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 10/10/88

GPC Cleanup: (Y/N) ___ pH: ___ Dilution Factor: _____

Number TICs found: 1

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 0-00-0	Unknown	28.17	15	
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EMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E809209-C2

Lab Name: ETAS-PITTSBURGH Contract: ESSEX

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) W Lab Sample ID: E809209-C2

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 921

Level: (low/med) L Date Received: 9/23/88

% Moisture: not dec. - dec. - Date Extracted: 9/27/88

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 10/10/88

GPC Cleanup: (Y/N) ___ pH: ___ Dilution Factor: _____

Number TICs found: 5

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 0-00-0	Unknown	6.07	12	
2. 0-00-0	Column Bleed	15.30	7	
3. 0-00-0	Unknown	24.15	21	
4. 0-00-0	Unknown	30.08	11	
5. 0-00-0	Column Bleed	44.62		
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E8093.9 [illegible]

Lab Name: ITAS-PITTSBURGH Contract: ESSEX

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) W Lab Sample ID: E809209-30

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 922

Level: (low/med) L Date Received: 9/23/88

% Moisture: not dec. — dec. — Date Extracted: 9/27/88

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 10/10/88

GPC Cleanup: (Y/N) ___ pH: ___ Dilution Factor: _____

Number TICs found: 5

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. C-20-0	Unknown	6.08	15	
2. [illegible]	Column Bleed	15.30	7	
3. [illegible]	Unknown	28.13	23	
4. ~~[illegible]~~	~~Column Bleed~~	~~31.28~~		
5. ~~[illegible]~~	~~Column Bleed~~	~~44.72~~		
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EMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E[illegible]

Lab Name: ITAS-PITTSBURGH Contract: ESSEX

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) W Lab Sample ID: E[illegible]

Sample wt/vol: 1000 (g/mL) mL Lab File ID: 933

Level: (low/med) L Date Received: 9/23/88

% Moisture: not dec. - dec. - Date Extracted: 9/27/88

Extraction: (SepF/Cont/Sonc) SepF Date Analyzed: 10/10/88

GPC Cleanup: (Y/N) _____ pH: _____ Dilution Factor: _____

Number TICs found: 5

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 0-00-0	Unknown	6.30	9	
2. 0-00-0	Column Bleed	15.32	7	
3. 0-00-0	Column Bleed	28.15	11	
4. ~~0-00-0~~	~~Column Bleed~~	~~44.62~~		
5. ~~0-00-0~~	~~Column Bleed~~	~~44.72~~		
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ATTACHMENT 9

INFORMATION ON THE PAVING HISTORY OF SAYREVILLE BOROUGH FACILITY

Ref. No. 22 p. 170

ESSEX SPECIALTY PRODUCTS, INC.
A SUBSIDIARY OF ESSEX CHEMICAL CORPORATION

1401 BROAD STREET • CLIFTON, NEW JERSEY 07015
PHONE (201) 773-6300

December 7, 1983

New Jersey Dept. of Environmental Protection
CN029
Trenton, N. J. 08625
Attn: Donald Knause

Dear Mr. Knause:

We recently received a letter from Alfred Valencia of your Division regarding the Compliance Evaluation Inspection of the Essex Specialty Products plant located in Sayreville, New Jersey, NJPDES Permit number NJ 0002095. In that letter, we were requested to install a concrete pad at the rear of the plant.

An appropriation has already been made for this project. We plan to begin construction in December, and complete the project in January, 1984.

At this time we are investigating rerouting our remaining discharges to eliminate discharges (except rainwater) to the stream. We hope to be able to completely remove both the 001 and 002 outfalls. We will keep you informed of progress on this matter.

Please let me know if you have any questions, or if further action is required of us at this time.

Sincerely,

Diane L. Driscoll

Diane L. Driscoll
Regulatory Compliance Admin.

DLD:aw

cc: M. Barr

Registered mail, return receipt requested

Ref. No. 22 p. 171

Form DWR-053
4/78

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
P.O. Box 2809 Trenton, N.J. 08625

DISCHARGE SURVEILLANCE REPORT

PERMIT #: NJ0003093 NO. OF DISCHARGES: 002 CLASS: Min/Stand.

DISCHARGER: Essex Specialty Products Inc.

OWNER: Essex Chemical Corp.

MUNIC: Sayreville COUNTY: Middlesex WATERSHED CODE: Raritan

LOCATION: One Crossman Rd. South.

RECEIVING WATERS: Bird Creek STREAM CLASS: FW-2

LIC. OPERATOR & PLANT CLASS: Mike Barr. - plant mgr.

TRAINEE/ASST: none. OTHER INFO:

MAJOR DEFICIENCIES NOTED: none - All water being drained to Middlesex County S.A. lines. Note: Ground area at rear of plant that shows evidence of oil spills, and possible other products should be paved with concrete. This would allow for better drainage or run off.

OVERALL RATING: ☐ Acceptable ☒ Conditionally Acceptable ☐ Unacceptable

EVALUATOR: Don Krance TITLE: Compliance Investigator

INFORMATION FURNISHED BY: (name) Mike Barr.

(title) Plant manager. (organization) Essex Chemical Corp.

DATE OF INSPECTION: Oct 4, 1983

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Form DWR-053-A
4/78

N.J.D.E.P.
D.W.R.
DISCHARGE SURVEILLANCE REPORT

Permit #: NJ0003093
Date: 10/4/83

INDUSTRIAL TREATMENT PROCESS EVALUATION

RATING CODES: S = Satisfactory M = Marginal U = Unsatisfactory NA = Not Applicable

		RATING	COMMENTS
GENERAL	DISCHARGE # 001 & 002	---	001 discharging approx 300 gals daily
	WASTEWATER SOURCE(S)	---	002 - none discharged. Process & non contact cooling
	CONTINUITY OF OPERATION	---	8 hr. shift only.
	BYPASSES/OVERFLOWS	NA.	
	S.P.C.C. PLAN	S	
	ALARM SYSTEMS	NA	
	ALTERNATE POWER SUPPLY	NA.	
TREATMENT PROCESSES			
SLUDGE HANDLING			
	DISPOSAL SITE	NA	
OTHER INFORMATION	FLOW METER & RECORDER	NA	none will be installing meter.
	RECORDS	S	kept in main office.
	SAMPLING PROCEDURES	S	Princeton Testing Labs & Princeton Aqua Science
	ANALYSES PERFORMED BY	S	
	FINAL EFFLUENT APPEARENCE	NL	
	REC. WATERS APPEARENCE	NL	

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Form DWR-053
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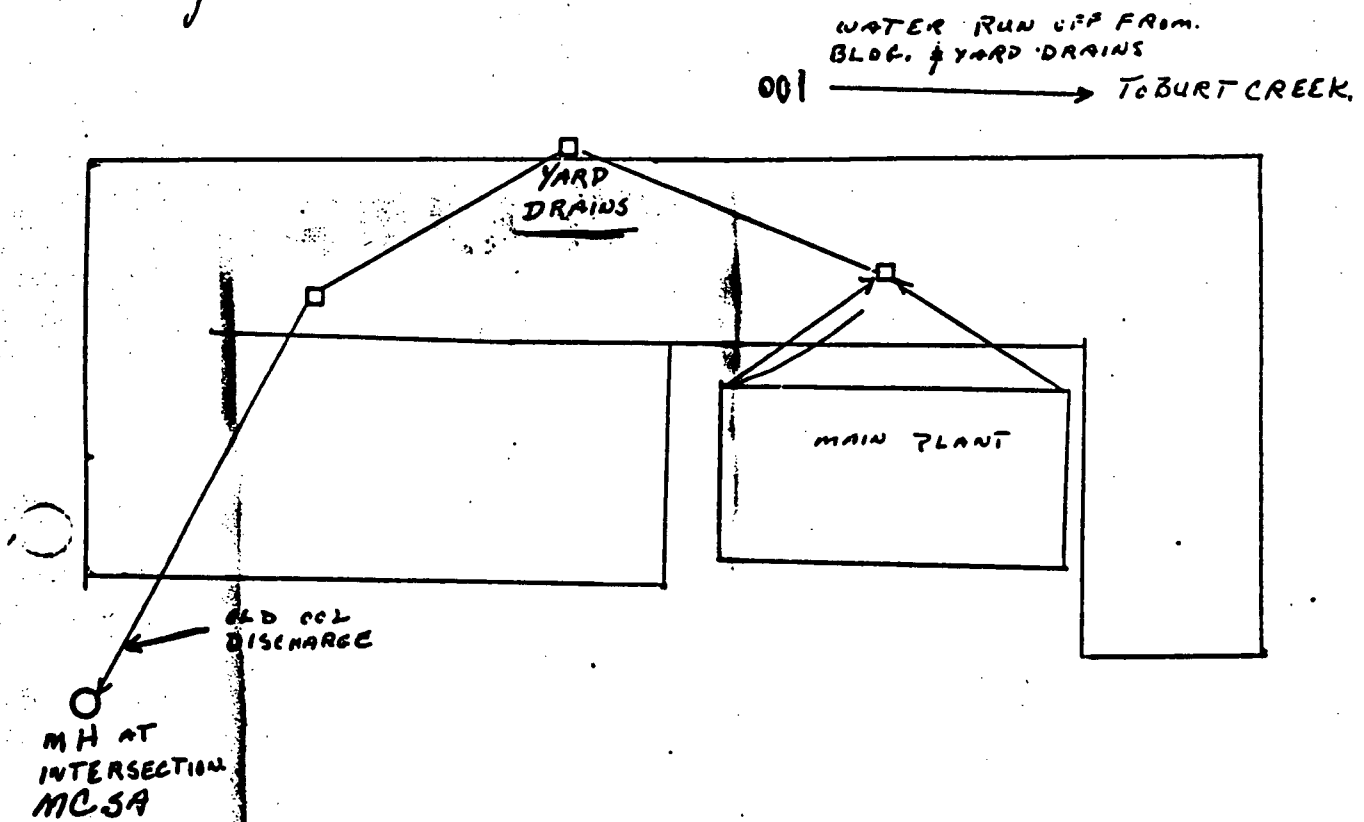
N.J.D.E.P.
D.W.R.
DISCHARGE SURVEILLANCE REPORT

Permit #: NJ0003093
Date: 10/4/83

PLANT DIAGRAM AND FLOW SEQUENCE:

Discharge 002 discontinued
Discharge 003 discontinued



SAMPLING PERIOD: 5/1/83 to 7/31/83 COMPOSITE INTERVAL: DMR

DISCHG	PARA	SAMPLE TYPE	PERMIT LIMITS	SAMPLE RESULT	DISCHG	PARA	SAMPLE TYPE	PERMIT LIMITS	SAMPLE RESULT
001	Flow			daily .0003	002	Flow	none		
	P.H.	grab	6—9	7.0					
	SS	grab	20 mg/L	22					
	TOC	grab	20 mg/L	17.45					
001	Temp.	grab	27°C	21°C					

Doc. No. 22 0.174

Large

Map was not

Filmed

Ref. No. 22p. 175

Ref. No. 22 p. 176

MONITOR WELL INSTALLATION REPORT

Project: ESSEX CHEMICAL CORPORATION SPECIALTY CHEMICALS FACILITY

Monitor Well No. OW-1S

Location: SAYREVILLE, N.J.

Project No. 02C4502A

Installed By: Warren Georges, Inc.

Date: June 21, 1983

Method of Installation: A 5 in. borehole was drilled without using casing. A sample was taken from 6 ft. to 8 ft.

LOG OF MONITOR WELL

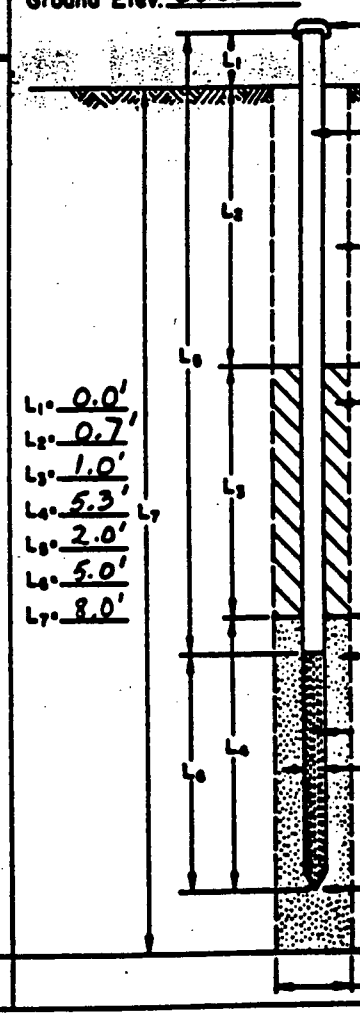
BORING

Depth in ft.	Description	Symbol
0	ASPHALT PAVEMENT	
2	fine - Coarse SAND	
4		
6		
8		
10		

MONITOR WELL

Ground Elev. 29.63

Top of Riser Elev. 29.51



L_1 = 0.0'
L_2 = 0.7'
L_3 = 1.0'
L_4 = 5.3'
L_5 = 2.0'
L_6 = 5.0'
L_7 = 8.0'

Vented Cap

I.D. of Riser Pipe 3.0 in.

Type of Pipe PVC

Type of Backfill Around Riser Medium sand

Top of Seal

Type of Seal Material BENTONITE

Top of Filter

Type of Filter Material Medium sand

Diameter of Monitor Well Tip 3.0 in.

Bottom of Mon. Well

Bottom of Boring

Diameter of Boring 5.0 in.

Remarks: Boring terminated at 8 ft.

Inspected By: [signature]

WOODWARD-CLYDE CONSULTANTS

Ref No 22 p. 177

WOODWARD–CLYDE CONSULTANTS
CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

LOG OF BORING B-15 SHEET 1 OF 1

PROJECT AND LOCATION: ESSEX CHEMICAL PLANT, SAYREVILLE, N.J.		ELEVATION AND DATUM: 29.6 ft	PROJECT NO: 82C4502A
DRILLING AGENCY: Warren George, Inc.	FOREMAN: V. Gandolfo	DATE STARTED: June 21, 1983	DATE FINISHED: June 21, 1983
DRILLING EQUIPMENT: Mobile Drill-B61		COMPLETION DEPTH: 8.0 ft.	ROCK DEPTH: Not encountered
SIZE AND TYPE OF BIT: Chopping bit	SIZE AND TYPE CORE BARREL: N.A.	NO SAMPLES: DIST 1	UNDIST. 0 / CORE 0
CASING: 5 in ID Flush Joint		WATER LEVEL (FT): FIRST —	COMPL. — / 24 HR. —
CASING HAMMER: WEIGHT 300 lb.	DROP 30 in.	BORING ANGLE AND DIRECTION: VERTICAL	
SAMPLER: 2.0 in. O.D. SPLIT SPOON		INSPECTOR: L. RIVAS	
SAMPLER HAMMER: WEIGHT 140 lb.	DROP 30 in.		

CASING PENETR. RESIST. BL/FT	DESCRIPTION	PIEZ.	DEPTH, FT	SAMPLES TYPE NUMBER	SAMPLES RECOV. FT	SAMPLES PENETR. RESIST BL/6 IN	R. CORE RECOVERY %	R. CORE RQD	INDEX TESTS W_n, %	LL, %	PL, %	-200, %	REMARKS
	Light Brown f-m SAND, tr. c-sand, tr. clay (wet)		6–8	S-1	22"	7, 8, 11, 13							
	Boring terminated at 8.0 ft.												

Ref. No. 22 p. 178

THIS FORM MUST BE COMPLETED BY THE PERMITTEE OR HIS/HER AGENT

GROUND WATER
MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION
(One form must be completed for each well)

Name of Permittee: ESSEX CHEMICAL CORPORATION
Name of Facility: ESSEX SAYERVILLE BOROUGH FACILITY
Location: SAYERVILLE, N.J.

NJPDES Permit No: _____

ENGINEER'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section (609-984-6831): This number must be permanently affixed to the well casing.	- -
Owner's Well Number (As shown on the application or plans):	DW-1D
Well Completion Date:	6/21/83
Distance from Top of Casing (cap off) to ground surface (one-hundredth of a foot):	0.00
Total Depth of Well (one-tenth of a foot):	32.0
Depth to Top of Screen From Top of Casing (one-tenth of a foot):	29.0
Screen Length (feet):	8.0
Screen or Slot Size:	N.A.
Screen Material:	N.A.
Casing Material: (PVC, Steel or Other-Specify):	PVC
Casing Diameter (Inches):	3.0 ID
Static Water Level From Top of Casing at The Time of Certification (one-hundredth of a foot):	+27.56 7/13/83
Yield (Gallons per Minute):	N.A
Length of time Well Pumped or Bailed:	N.A. Hours Minutes
Lithologic Log:	ATTACH ON BACK

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

_____
Professional Engineer's Signature

_____
Professional Engineer's Name
(Please type or print)

SEAL

_____
Professional Engineer's License #

Ref. No. 22 p. 179

ALL EXISTING AND PROPOSED GROUND WATER MONITORING WELLS SHALL MEET THE FOLLOWING REQUIREMENTS:

A Ground Water Monitoring Well Certification Form (A and B) must be completed for each existing and proposed ground water monitoring well. Information for each well must be shown on a separate well completion form. The form entitled "Ground Water Monitoring Well Certification, Form A - As Built Construction Certification", must be signed by one of the following: a New Jersey licensed Professional Engineer; a licensed New Jersey Well Driller; a geologist certified by any State; a geologist certified by the American Institute of Professional Geologists; an individual certified by the American Institute of Hydrology; any other person approved by the Department. Form B, "Location Certification", must be signed and sealed by a Licensed New Jersey Land Surveyor. For an existing well, if information required on the well completion form cannot be determined or if the well is not adequately constructed to meet the requirements of the NJPDES Permit, the Department reserves the right to require additional replacement well(s) to be drilled. Criteria to be used by the Department in judging the adequacy of a well will be related to the ability of the well to provide a representative ground water sample at any time of the year as specified within the NJPDES Permit. Any replacement well must be installed within a ten (10) foot radius of the specified sampling location. Inadequate or damaged wells must be properly sealed as per N.J.A.C. 58:4A-4.1. Instructions regarding sealing may be obtained by contacting the Water Allocation Office at (609) 984-6831.

Ref. No. 22 p. 180

MONITOR WELL INSTALLATION REPORT

Project: ESSEX CHEMICAL CORPORATION SPECIALTY CHEMICALS FACILITY
Monitor Well No. OW1-1D
Location: SAYREVILLE, N.J.
Project No. 82C4502A
Installed By: Warren George, Inc.
Date: June 21, 1983

Method of Installation: A 5 in. borehole was drilled driving the casing down and taking continuous split spoon samples.

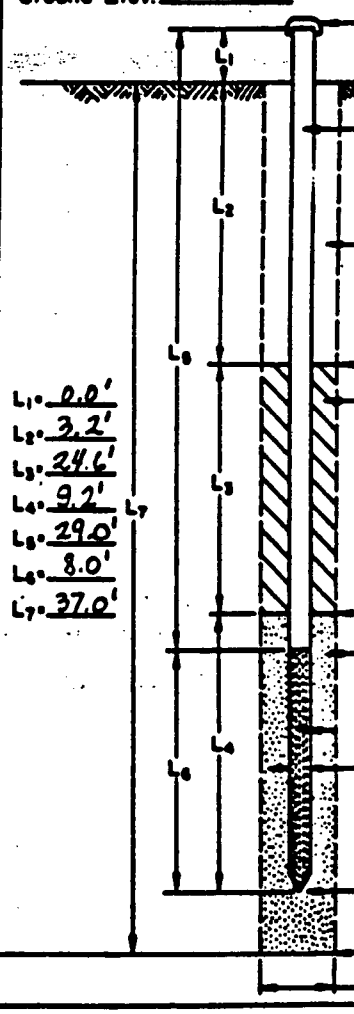
LOG OF MONITOR WELL

BORING

Depth in ft.	Description	Symbol
0	ASPHALT PAVEMENT	
	fine-Coarse SAND	
10	silty CLAY & clayey SILT	
20		
	Coarse-Medium SAND	
30	clayey SILT	
	silty fine SAND	
40		

MONITOR WELL

Ground Elev. 29.46
Top of Riser Elev. 29.41



L_1 = 0.0'
L_2 = 3.2'
L_3 = 24.6'
L_4 = 9.2'
L_5 = 29.0'
L_6 = 8.0'
L_7 = 37.0'

Vented Cap
I.D. of Riser Pipe 3.0 in.
Type of Pipe PVC
Type of Backfill Around Riser Medium sand
Top of Seal
Type of Seal Material BENTONITE
Top of Filter
Type of Filter Material Medium sand
Diameter of Monitor Well Tip 3.0 in.
Bottom of Mon. Well
Bottom of Boring
Diameter of Boring 5.5 in.

Remarks: Boring terminated at 37 ft.

Inspected By: [signature]
WOODWARD-CLYDE CONSULTANTS

Ref. No. 22P.181

WOODWARD–CLYDE CONSULTANTS
CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

LOG OF BORING B-1D

SHEET 1 OF 2

PROJECT AND LOCATION: ESSEX CHEMICAL PLANT, SAYREVILLE, N.J.		ELEVATION AND DATUM: 29.5 ft	PROJECT NO: 82C4502A
DRILLING AGENCY: Warren George, Inc.	FOREMAN: V. Gandolfo	DATE STARTED: June 20, 1983	DATE FINISHED: June 20, 1983
DRILLING EQUIPMENT: Mobile Drill-B61		COMPLETION DEPTH: 37 ft.	ROCK DEPTH: Not encountered
SIZE AND TYPE OF BIT: chopping bit	SIZE AND TYPE CORE BARREL: N.A.	NO SAMPLES: DIST 18	UNDIST 0 / CORE 0
CASING: 5 in ID Flush Joint		WATER LEVEL (FT): FIRST 4.0'	COMPL. — / 24 HR. —
CASING HAMMER: WEIGHT 300 lb.	DROP 30 in.	BORING ANGLE AND DIRECTION: VERTICAL	
SAMPLER: 2.0 in. O.D. SPLIT SPOON		INSPECTOR: L. RIVAS	
SAMPLER HAMMER: WEIGHT 140 lb.	DROP 30 in.		

CASING PENETR. RESIST. BL/FT	DESCRIPTION	PIEZ.	DEPTH, FT	SAMPLES: TYPE NUMBER	RECOV. FT	PENETR. RESIST. BL/6 IN.	R CORE: RECOVERY %	RQD	INDEX TESTS: W_n, %	LL, %	PL, %	-200, %	REMARKS
9	ASPHALT PAVEMENT												
15	Light tan Brown m-f SAND, tr. silt, tr. c-sand (moist)		1	S-1	22"	11, 16, 13, 14							
33	Dark Brown f-m SAND, tr. silt (moist)		2										
47	Dark Brown f-m SAND, tr. silt, tr. clay (moist-wet)		3	S-2	24"	13, 34, 37, 37							
6			4										
16	Light Brown f-m SAND, tr. silt, tr. gravel, tr. clay (pocket) (wet)		5	S-3	16"	8, 6, 14, 17							Drove 5"ø casing down to 4 ft.
26			6										
31	Light Brown f-c SAND, tr. clay (pocket ≈ 1.5") (wet)		7	S-4	24"	16, 20, 18, 14							
24			8										Drove casing down to 9 ft.
	Light Gray silty CLAY (moist-wet)		9	S-5	18"	4, 6, 11, 13							
	Light Gray silty CLAY, tr. fine sand (moist-wet)		10										
	Light Gray sandy CLAY (≈ 4"), tr. f-gravel (wet)		11	S-6	24"	10, 15, 19, 23							
	Light Gray silty CLAY, tr. f-sand (moist-wet)		12										
	Light Gray silty CLAY, tr. f-sand (moist-wet)		13	S-7	7"	4, 5, 6, 8							
	Dark Gray clayey SILT, occac pieces of charred wood (moist)		14										
	Dark Gray clayey SILT, occac pieces of charred wood (moist)		15	S-8	24"	10, 15, 21, 24							
	Light Gray SILT w/occac clay		16										
			17	S-9	18"	3, 8, 15, 26							
			18										
			19	S-10	[illegible]	25							

Ref. NO. 22 p. 182

OODWARD—CLYDE CONSULTANTS

CONSULTING E..INEERS, GEOLOGISTS AND ENVIRONMENTAL ..NTISTS

LOG OF BORING B-1D

SHEET 2 OF 2

CASING PENETR. RESIST. BL/FT	DESCRIPTION	PIEZ.	DEPTH, FT	SAMPLES TYPE NUMBER	SAMPLES RECOV. FT	SAMPLES PENETR RESIST BL/6IN.	IN. CORE RECOVERY %	IN. CORE RQD	INDEX TESTS W_n, %	INDEX TESTS LL, %	INDEX TESTS PL, %	INDEX TESTS -200, %	REMARKS
	Dark Gray clayey SILT, occac pieces of charred wood (moist)					35 38							
	Dark Gray clayey SILT (moist)		21										
	Dark Gray f-SAND with layers of dark gray clayey silt (wet)		22	S-11	18"	5 11 14 15							
	Dark Gray sandy SILT (moist)		23										
	Dark Gray clayey SILT (moist)		24	S-12	18"	13 9 17 20							
	Dark Gray clayey SILT (moist)		25										
	Light tan Brown, sandy SILT, tr. gravel		26	S-13	18"	4 5 9 7							
	Light Brown and Dark Brown silty CLAY w/occac pieces of charred wood, tr. f-sand. (moist-wet)		27										
	Dark Gray sandy SILT w/occac layers of clayey silt (moist-wet)		28	S-14	24"	6 12 18 20							
	Light tan Brown c-m SAND (≈ 14") (wet)		29										
	Light tan Brown c-m SAND (≈ 10") (wet)		30	S-15	24"	5 12 15 25							
	Dark Gray clayey SILT w/occac pieces of charred wood (moist)		31										
	Dark Gray clayey SILT w/occac pieces of charred wood (moist)		32	S-16	20"	19 27 28 31							
	Light tan Brown c-m SAND (≈ 6") (wet)		33										
	Light tan Brown and Orange silty fine SAND (wet)		34	S-17	18"	6 12 12 17							
	Light tan Brown and Orange silty fine SAND w/occac clay layers (wet)		36	S-18	18"	15 18 29 43							
	Boring terminated at 37 ft.		37										
			38										
			39										
			40										
			41										
			42										
			43										
			44										
			45										

Bof No. 22 D. 183

THIS FORM MUST BE COMPLETED BY THE PERMITTEE OR HIS/HER AGENT

GROUND WATER
MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION
(One form must be completed for each well)

Name of Permittee: ESSEX CHEMICAL CORPORATION
Name of Facility: ESSEX SAYERVILLE BOROUGH FACILITY
Location: SAYERVILLE, NJ

NJPDES Permit No: N.A.

ENGINEER'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section (609-984-6831): This number must be permanently affixed to the well casing.	- -
Owner's Well Number (As shown on the application or plans):	OW-2S
Well Completion Date:	6/15/83
Distance from Top of Casing (cap off) to ground surface (one-hundredth of a foot):	2.77
Total Depth of Well (one-tenth of a foot):	16.5
Depth to Top of Screen From Top of Casing (one-tenth of a foot):	4.5
Screen Length (feet):	10.0
Screen or Slot Size:	N.A.
Screen Material:	N.A.
Casing Material: (PVC, Steel or Other-Specify):	PVC
Casing Diameter (Inches):	3.0 ID
Static Water Level From Top of Casing at The Time of Certification (one-hundredth of a foot):	+23.19 (7/13/83)
Yield (Gallons per Minute):	NA
Length of time Well Pumped or Bailed:	NA Hours Minutes
Lithologic Log:	ATTACH ON BACK

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

Professional Engineer's Signature

Professional Engineer's Name
(Please type or print)

SEAL

Professional Engineer's License #

Ref No. 220. 184

MONITOR WELL INSTALLATION REPORT

Project: ESSEX CHEMICAL CORPORATION SPECIALTY CHEMICALS FACILITY

Monitor Well No. OW-2S

Location: SAYREVILLE, N.J.

Project No. 82C4522A

Installed By: Water Geoscience, Inc.

Date: JUNE 15, 1983

Method of Installation: A 5 in. borehole was drilled driving the casing down and taking continuous split spoon samples.

LOG OF MONITOR WELL

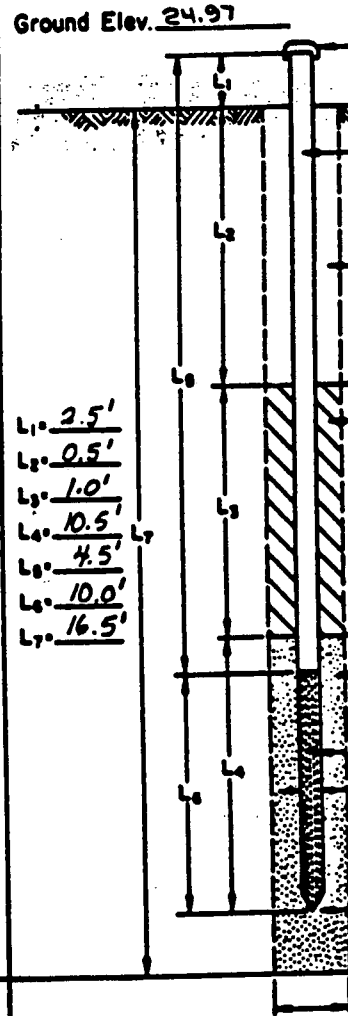
BORING

Depth in ft.	Description	Symbol
0	Organic silty fine SAND	
5	Medium-fine SAND	
10		
15	silty CLAY	
20		

MONITOR WELL

Ground Elev. 24.97

Top of Riser Elev. 27.74



L_1 = 2.5'
L_2 = 0.5'
L_3 = 1.0'
L_4 = 10.5'
L_5 = 4.5'
L_6 = 10.0'
L_7 = 16.5'

Vented Cap

I.D. of Riser Pipe 3.0 in.

Type of Pipe PVC

Type of Backfill Around Riser Medium sand

Top of Seal

Type of Seal Material BENTONITE

Top of Filter

Type of Filter Material Medium Sand

Diameter of Monitor Well Tip 3.0 in.

Bottom of Mon. Well

Bottom of Boring

Diameter of Boring 5.0 in.

Remarks: Boring terminated at 16.5 ft.

Inspected By: Jim Francis [signature]

WOODWARD-CLYDE CONSULTANTS

Ref No. 220.185

WOODWARD–CLYDE CONSULTANTS
CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

LOG OF BORING B-2S SHEET 1 OF 1

PROJECT AND LOCATION: ESSEX CHEMICAL PLANT, SAYREVILLE, N.J.		ELEVATION AND DATUM: 25.0 ft	PROJECT NO: 82C450-A
DRILLING AGENCY: Warren George, Inc.	FOREMAN: V. Gandolfo	DATE STARTED: JUNE 15, 1983	DATE FINISHED: JUNE 15, 1983
DRILLING EQUIPMENT: Mobile Drill - B61		COMPLETION DEPTH: 16.5 ft.	ROCK DEPTH: Not encountered
SIZE AND TYPE OF BIT: Chopping bit	SIZE AND TYPE CORE BARREL: N.A.	NO SAMPLES: DIST. 8	UNDIST 0 / CORE 0
CASING: 5 in ID Flush Joint		WATER LEVEL (FT): FIRST 2.5'	COMPL. — / 24 HR. —
CASING HAMMER: WEIGHT 300 lb.	DROP 30 in	BORING ANGLE AND DIRECTION: VERTICAL	
SAMPLER: 2.0 in. OD SPLIT SPOON		INSPECTOR: L. RIVAS	
SAMPLER HAMMER: WEIGHT 140 lb.	DROP 30 in		

CASING PENETR. RESIST. BL/FT	DESCRIPTION	PIEZ.	DEPTH, FT	SAMPLES TYPE NUMBER	RECOV. FT	PENETR. RESIST. BL/6 IN.	CORE RECOVERY %	RQD	INDEX TESTS W. %	LL, %	PL, %	-200, %	REMARKS
7 12	Dark Brown organic silty fine SAND, fine roots present (moist-dry)		1	S-1	14"	4 4 4 6							
25 3	Dark Brown medium to fine SAND (moist-wet)		2 3 4	S-2	18"	10 9 11 14							
10 19	tan-Light Brown medium to fine SAND (wet)		5	S-3	10"	7 7 6 6							Drove 5" casing down to 3 ft.
23 24	tan-Light Brown medium to fine SAND, and Yellow medium to fine SAND, Tr. silt. (wet)		6 7 8	S-4	15"	9 9 19 20							Drove casing down to 8 ft.
30 31	Light tan medium to fine SAND, thin clay seam (wet)		9 10	S-5	13"	6 7 7 8							
30 31	Light tan medium to fine SAND, Tr. coarse sand, thin clay seam (wet) Very Light Yellow fine SAND (wet)		11 12	S-6	17"	10 16 15 20							
	Light tan fine to coarse SAND (wet) Light Gray silty CLAY (moist)		13 14	S-7	13"	7 7 2 2 13							Drove casing down to 12 ft. overdrove sampler 5"
	Light Gray silty CLAY Dark Gray silty CLAY (moist)		15 16	S-8	9"	2 4 7 9							Drove casing down to 13.5 ft.
	Boring Terminated at 16 ft. 6 in.		17 18 19										

Ref No. 22 p.186

THIS FORM MUST BE COMPLETED BY THE PERMITTEE OR HIS/HER AGENT

GROUND WATER
MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION
(One form must be completed for each well)

Name of Permittee: ESSEX CHEMICAL CORPORATION
Name of Facility: ESSEX SAYERVILLE BOROUGH FACILITY
Location: SAYERVILLE NJ

NJPDES Permit No: N.A.

ENGINEER'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section (609-984-6831): This number must be permanently affixed to the well casing.	
Owner's Well Number (As shown on the application or plans):	OW-3S
Well Completion Date:	6/16/83
Distance from Top of Casing (cap off) to ground surface (one-hundredth of a foot):	2.69
Total Depth of Well (one-tenth of a foot):	14.0
Depth to Top of Screen From Top of Casing (one-tenth of a foot):	4.5
Screen Length (feet):	10.0
Screen or Slot Size:	NA
Screen Material:	NA
Casing Material: (PVC, Steel or Other-Specify):	PVC
Casing Diameter (Inches):	3.0
Static Water Level From Top of Casing at The Time of Certification (one-hundredth of a foot):	+21.66 (7/13/83)
Yield (Gallons per Minute):	NA
Length of time Well Pumped or Bailed:	NA Hours Minutes
Lithologic Log:	ATTACH ON BACK

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

Professional Engineer's Signature

Professional Engineer's Name
(Please type or print)

SEAL

Professional Engineer's License #

Ref. No. 22P. 187

MONITOR WELL INSTALLATION REPORT

Project: ESSEX CHEMICAL CORPORATION SPECIALTY CHEMICALS FACILITY
Monitor Well No. OW-3S
Location: SAYREVILLE, N.J.
Project No. 82C4502A
Installed By: Warren George, Inc
Date: JUNE 16, 1983

Method of Installation: A 5 in. borehole was drilled down to a depth of 12 ft. without sampling. Casing was driven to a depth of 11 ft. A sample was taken from 12 ft. to 14 ft.

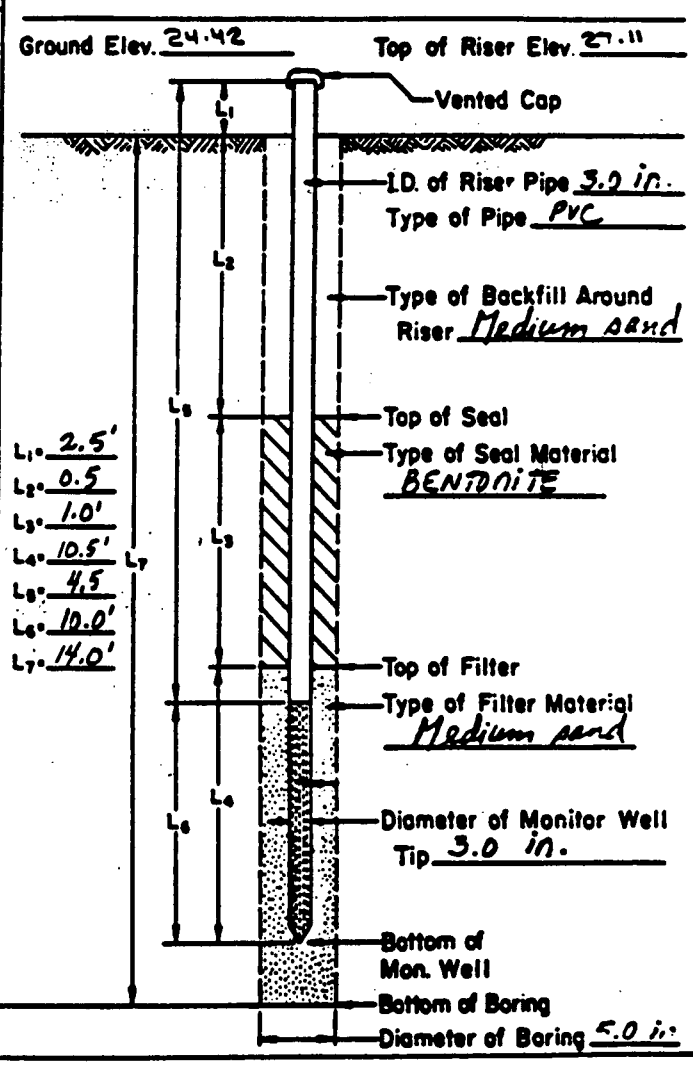
LOG OF MONITOR WELL

BORING

Depth in ft.	Description	Symbol
0	Organic Medium-fine SAND	
	Medium-fine SAND	
	SILT	
	Medium-fine SAND	
5	Organic SILT	
10	Fine-Coarse SAND	
15		
20		

MONITOR WELL

Ground Elev. 24.42
Top of Riser Elev. 27.11



L_1 = 2.5'
L_2 = 0.5
L_3 = 1.0'
L_4 = 10.5'
L_5 = 4.5
L_6 = 10.0'
L_7 = 14.0'

Remarks: Boring terminated at 14 ft.

Inspected By: [signature]
WOODWARD-CLYDE CONSULTANTS

Ref. No. 220.188

WOODWARD–CLYDE CONSULTANTS

CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

LOG OF BORING B-3S

SHEET 1 OF 1

PROJECT AND LOCATION: ESSEX CHEMICAL PLANT, SAYREVILLE, N.J.		ELEVATION AND DATUM: 24.4 ft	PROJECT NO: 82C4502A
DRILLING AGENCY: Warren George, Inc.	FOREMAN: V. Gandolfo	DATE STARTED: June 16, 1983	DATE FINISHED: June 16, 1983
DRILLING EQUIPMENT: Mobile Drill-B61		COMPLETION DEPTH: 14.0 ft	ROCK DEPTH: NOT ENCOUNTERED
SIZE AND TYPE OF BIT: Chopping bit	SIZE AND TYPE CORE BARREL: N.A.	NO SAMPLES: DIST 1	UNDIST 0 / CORE 3
CASING: 5 in ID Flush Joint		WATER LEVEL (FT): FIRST —	COMPL. — / 24 HR. —
CASING HAMMER: WEIGHT 300 lb.	DROP 30 in.	BORING ANGLE AND DIRECTION: VERTICAL	
SAMPLER: 2.0 in. O.D. SPLIT SPOON		INSPECTOR: L. RIVAS	
SAMPLER HAMMER: WEIGHT 140 lb.	DROP 30 in.		

CASING PENETR. RESIST. BL/FT	DESCRIPTION	PIEZ.	DEPTH, FT	SAMPLES TYPE NUMBER	RECOV. FT	PENETR. RESIST. BL/6 IN.	CORE RECOVERY %	RQD	INDEX TESTS W.C. %	LL, %	PL, %	-200, %	REMARKS
24			1										Drove 5" casing down to 9 ft
40			2										return water light gray in color
24			3										
27			4										
88			5										return water light tan brown in color
81			6										
50			7										
39			8										
39			9										
14			10										Drove casing down to 11 ft
16			11										return water light tan brown in color
	Light tan Brown m-c SAND, tr. clay (wet)		12–13	S-1	18"	4 4 4 7							
	Boring terminated at 14 ft.		14										
			15										
			16										
			17										
			18										
			19										

Ref. No. 22 p. 189

THIS FORM MUST BE COMPLETED BY THE PERMITTEE OR HIS/HER AGENT

GROUND WATER
MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION
(One form must be completed for each well)

Name of Permittee: ESSEX CHEMICAL CORPORATION
Name of Facility: ESSEX SAYERVILLE BOROUGH FACILITY
Location: SAYERVILLE N.J.

NJPDES Permit No: N A

ENGINEER'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section (609-984-6831): This number must be permanently affixed to the well casing.	
Owner's Well Number (As shown on the application or plans):	OW-3D
Well Completion Date:	6/16/83
Distance from Top of Casing (cap off) to ground surface (one-hundredth of a foot):	2.90
Total Depth of Well (one-tenth of a foot):	25.5
Depth to Top of Screen From Top of Casing (one-tenth of a foot):	23.0
Screen Length (feet):	5.0
Screen or Slot Size:	NA
Screen Material:	NA
Casing Material: (PVC, Steel or Other-Specify):	PVC
Casing Diameter(Inches):	3.0 ID
Static Water Level From Top of Casing at The Time of Certification (one-hundredth of a foot):	+21.20 (7/13/83)
Yield (Gallons per Minute):	NA
Length of time Well Pumped or Bailed:	NA Hours Minutes
Lithologic Log:	ATTACH ON BACK

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

Professional Engineer's Signature

Professional Engineer's Name
(Please type or print)

SEAL

Professional Engineer's License #

Ref. No. 22 p. 190

MONI[illegible]R WELL INSTALLATION [illegible]PORT

Project ESSEX CHEMICAL CORPORATION SPECIALTY CHEMICALS FACILITY
Monitor Well No. OW-3D
Location SAYREVILLE, N.J.
[illegible]oject No. 8[illegible]C450[illegible] Installed By Warren George, Inc. Date June 16, 1983

Method of Installation A 5 in. borehole was drilled driving the casing down and taking continuous split spoon samples

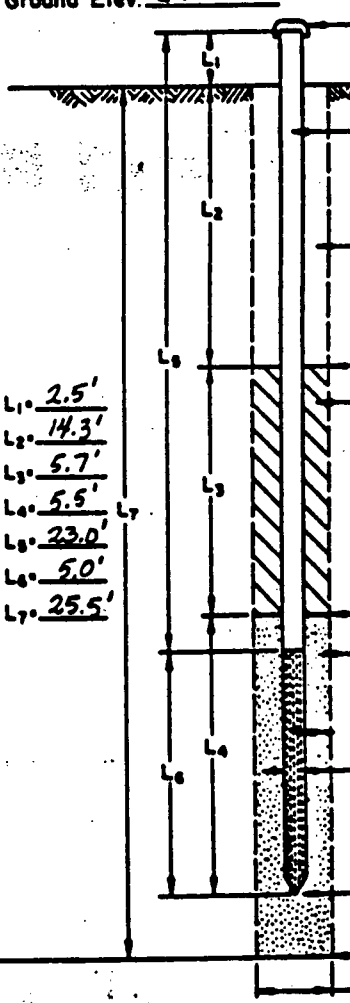
LOG OF MONITOR WELL

BORING

Depth in ft.	Description	Symbol
0	Organic Medium-fine SAND	
	Medium-fine SAND	
	SILT	
	Medium-fine SAND	
5	Organic SILT	
10	Fine - Coarse SAND	
15	silty CLAY	
20	Medium-fine SAND with seams of silty clay	
	Micaceous clayey SILT	
25		

MONITOR WELL

Ground Elev. 24.25
Top of Riser Elev. 27.15



L_1 = 2.5'
L_2 = 14.3'
L_3 = 5.7'
L_4 = 5.5'
L_5 = 23.0'
L_6 = 5.0'
L_7 = 25.5'

- Vented Cap
- I.D. of Riser Pipe 3.0 in.
- Type of Pipe PVC
- Type of Backfill Around Riser Medium sand
- Top of Seal
- Type of Seal Material BENTONITE
- Top of Filter
- Type of Filter Material Medium sand
- Diameter of Monitor Well Tip 3.0 in.
- Bottom of Mon. Well
- Bottom of Boring
- Diameter of Boring 5.0 in.

Remarks Boring terminated at 25.5 ft.

Inspected By [illegible]
WOODWARD-CLYDE CONSULTANTS

Ref. No. 22 P.

191

WOODWARD–CLYDE CONSULTANTS
CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

LOG OF BORING B-3D

SHEET 1 OF 2

PROJECT AND LOCATION: ESSEX CHEMICAL PLANT, SAYREVILLE, N.J.		ELEVATION AND DATUM: 24.3 ft	PROJECT NO: 82C4502A
DRILLING AGENCY: Warren George, Inc.	FOREMAN: V. Gandolfo	DATE STARTED: June 16, 1983	DATE FINISHED: June 16, 1983
DRILLING EQUIPMENT: Mobile Drill-B61		COMPLETION DEPTH: 25.5 ft.	ROCK DEPTH: Not encountered
SIZE AND TYPE OF BIT: Chopping bit	SIZE AND TYPE CORE BARREL: N.A.	NO SAMPLES: DIST 12	UNDIST. 0 / CORE 0
CASING: 5 in ID Flush Joint		WATER LEVEL (FT): FIRST 2.5'	COMPL. — / 24 HR. —
CASING HAMMER: WEIGHT 300 lb.	DROP 30 in.	BORING ANGLE AND DIRECTION: VERTICAL	
SAMPLER: 2.0 in. O.D. SPLIT SPOON			
SAMPLER HAMMER: WEIGHT 140 lb.	DROP 30 in.	INSPECTOR: L. RIVAS	

CASING PENETR. RESIST. BL/FT	DESCRIPTION	PIEZ.	DEPTH, FT	SAMPLES TYPE NUMBER	RECOV. FT	PENETR RESIST BL/6 IN	CORE RECOVERY %	RQD	INDEX TESTS W.C. %	LL, %	PL, %	-200, %	REMARKS
5	Dark Brown organic m-f SAND, tr. silt (moist-Dry)		1	S-1	22"	3 6 8 10							
16	Light tan Brown m-f SAND, tr. silt, tr. coarse sand (moist-Dry)												
12	Dark Brown m-f SAND (moist)		2	S-2	15"	3 3 11 15							
10	Dark Gray SILT (moist)		3										
8	Light Gray m-f SAND, some silt		4	S-3	24"	16 11 13 15							
15	Dark Brown organic SILT, tr. fine gravel (moist-wet)		5										Stop to [illegible]
24	Light Gray fine SAND, tr. gravel		6	S-4	18"	10 10 12 11							
31	Light Gray m-c SAND, tr. gravel (wet)		7										
15	Light Gray c-m SAND (wet)		8	S-5	10"	2 3 3 4							
14	Light tan Brown m-f SAND, tr. silt (wet)		9										Drove 5"ϕ casing down to 5 ft.
12	Light Gray c-m SAND (wet)		10	S-6	24"	3 6 8 13							
17	Light tan Brown c-m SAND, tr. silt, tr. red clay (wet)		11										Drove 5"ϕ casing down to 12 ft.
16			12	S-7	NR	5 8 9 9							
14			13										overdrive sampler from 12' to 15'
12	Light Brown c-m SAND (wet)		14	S-7	25"	10 9							
31	Light Brown m-c SAND, tr. clay (wet)		15	S-8	15"	3 9 10 17							Drove 5"ϕ casing down to 13.5 ft
54	Dark Gray silty CLAY (moist)		16										
47	Dark Gray silty CLAY (moist)		17	S-9	24"	14 16 22 23							
	Light Gray silty CLAY, tr. f-sand		18										Drove 5"ϕ casing down to 15.5 ft.
	Light Gray m-f SAND (wet)												
	Light tan Brown m-f SAND		19	S-10	18"	5 12							

Ref. No. 220.192

WOODWARD–CLYDE CONSULTANTS

CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

LOG OF BORING B-3D

SHEET 2 OF 2

CASING PENETR. RESIST. BL/FT	DESCRIPTION	PIEZ.	DEPTH, FT	SAMPLES TYPE NUMBER	SAMPLES RECOV. FT	SAMPLES PENETR. RESIST. BL/6IN.	IN CORE RECOVERY, %	IN CORE RQD	INDEX TESTS W_n, %	INDEX TESTS LL, %	INDEX TESTS PL, %	INDEX TESTS -200, %	REMARKS
	with few seams of silty clay: red, light gray and dark gray in color. (wet)					10 12							
			21										
	Light tan Brown m-f SAND with few seams of silty clay: red, light gray in color (wet)		22	S-11	24"	5 23 27 23							
			23										
	Light tan Brown m-c SAND, tr. clay					7							
	Light gray micaceous clayey SILT (moist)		24	S-12	24"	9 13 13 17							overhead sample
			25										
	Boring terminated at 25.5 ft.		26										
			27										
			28										
			29										
			30										
			31										
			32										
			33										
			34										
			35										
			36										
			37										
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			40										
			41										
			42										
			43										
			44										
			45										

Ref. No. 22 p. 193

THIS FORM MUST BE COMPLETED BY THE PERMITTEE OR HIS/HER AGENT

GROUND WATER
MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION
(One form must be completed for each well)

Name of Permittee: ESSEX CHEMICAL CORPORATION
Name of Facility: ESSEX SAYERVILLE BOROUGH FACILITY
Location: SAYERVILLE N.J

NJPDES Permit No: N/A

ENGINEER'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section (609-984-6831): This number must be permanently affixed to the well casing. - - - - - - - - - -

Owner's Well Number (As shown on the application or plans): CW-4S
Well Completion Date: 6/17/83
Distance from Top of Casing (cap off) to ground surface (one-hundredth of a foot): 2.75
Total Depth of Well (one-tenth of a foot): 18.0
Depth to Top of Screen From Top of Casing (one-tenth of a foot): 7.5
Screen Length (feet): 10.0
Screen or Slot Size: NA
Screen Material: NA
Casing Material: (PVC, Steel or Other-Specify): PVC
Casing Diameter (Inches): 3.0 ID
Static Water Level From Top of Casing at The Time of Certification (one-hundredth of a foot): +21.93 (7/13/89)
Yield (Gallons per Minute): NA
Length of time Well Pumped or Bailed: NA Hours Minutes
Lithologic Log: ATTACH ON BACK

AUTHENTICATION:

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

Professional Engineer's Signature

Professional Engineer's Name
(Please type or print)

SEAL

Professional Engineer's License #

Ref. No. 22 p. 194

MONI. R WELL INSTALLATION REPORT

Project: ESSEX CHEMICAL CORPORATION SPECIALTY CHEMICALS FACILITY
Project No. 02C4502A
Installed By: Warren George, Inc.
Monitor Well No. OW-4S
Location: SAYREVILLE, N.J.
Date: JUNE 17, 1983

Method of Installation: A 5 in. borehole was drilled down to a depth of 18 ft. without sampling. Casing was driven to a depth of 14.5 ft. Two samples were taken from 18 ft. to 22 ft.

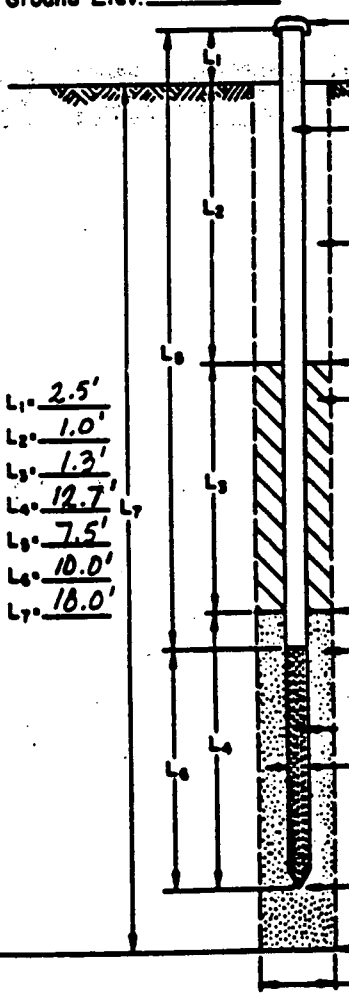
LOG OF MONITOR WELL

BORING

Depth in ft.	Description	Symbol
0	fine SAND	
5	clayey fine SAND	
10	fine - Coarse SAND with clay seams	
15		
20		
25		

MONITOR WELL

Ground Elev. 27.18
Top of Riser Elev. 29.93



L_1 = 2.5'
L_2 = 1.0'
L_3 = 1.3'
L_4 = 12.7'
L_5 = 7.5'
L_6 = 10.0'
L_7 = 18.0'

- Vented Cap
- I.D. of Riser Pipe 3.0 in.
- Type of Pipe PVC
- Type of Backfill Around Riser SAND
- Top of Seal
- Type of Seal Material BENTONITE
- Top of Filter
- Type of Filter Material SAND
- Diameter of Monitor Well Tip 3.0 in.
- Bottom of Mon. Well
- Bottom of Boring
- Diameter of Boring 5.2 in.

Remarks: Boring terminated at 22 ft.

Inspected By: [signature]
WOODWARD-CLYDE CONSULTANTS

Ref. No. 22P.195

WOODWARD–CLYDE CONSULTANTS

CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

LOG OF BORING B-45

SHEET 1 OF 2

PROJECT AND LOCATION: ESSEX CHEMICAL PLANT, SAYREVILLE, N.J.		ELEVATION AND DATUM: 27.24	PROJECT NO: 82C4502A
DRILLING AGENCY: Warren George, Inc.	FOREMAN: V. Gandolfo	DATE STARTED: June 17, 1983	DATE FINISHED: June 17, 1983
DRILLING EQUIPMENT: Mobile Drill - B61		COMPLETION DEPTH: 22 ft.	ROCK DEPTH: Not encountered
SIZE AND TYPE OF BIT: chopping bit	SIZE AND TYPE CORE BARREL: N.A.	NO SAMPLES: DIST 2	UNDIST 0 / CORE 0
CASING: 5 in ID Flush Joint		WATER LEVEL (FT): FIRST –	COMPL. – / 24 HR –
CASING HAMMER: WEIGHT 300 lb.	DROP 30 in	BORING ANGLE AND DIRECTION: VERTICAL	
SAMPLER: 2.0 in. O.D. SPLIT SPOON		INSPECTOR: L. RIVAS	
SAMPLER HAMMER: WEIGHT 140 lb.	DROP 30 in.		

CASING PENETR. RESIST. BL/FT	DESCRIPTION	PIEZ.	DEPTH, FT	SAMPLES TYPE NUMBER	SAMPLES RECOV. FT	SAMPLES PENETR. RESIST BL/6 IN.	% RECOVERY	RQD	W_n, %	LL, %	PL, %	-200, %	REMARKS
34			1										Drive casing down to 14.5 ft.
64			2										
49			3										
42			4										
46			5										
65			6										
76			7										
53			8										
53			9										
61			10										
51			11										
61			12										
66			13										
67			14										
			15										
			16										
			17										
	Light tan Brown c-m SAND with clay seams (Wet)		18	S-1	15"	3 7 6 7							
			19										

Ref. No. 22 p. 196

THIS FORM MUST BE COMPLETED BY THE PERMITTEE OR HIS/HER AGENT

GROUND WATER
MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION
(One form must be completed for each well)

Name of Permittee: ESSEX CHEMICAL CORPORATION
Name of Facility: ESSEX SAYERVILLE BOROUGH FACILITY
Location: SAYERVILLE, NJ

NJPDES Permit No: NA

ENGINEER'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section (609-984-6831): This number must be permanently affixed to the well casing.	
Owner's Well Number (As shown on the application or plans):	OW-4D
Well Completion Date:	6/17/83
Distance from Top of Casing (cap off) to ground surface (one-hundredth of a foot):	2.95
Total Depth of Well (one-tenth of a foot):	26.0
Depth to Top of Screen From Top of Casing (one-tenth of a foot):	23.5
Screen Length (feet):	5.0
Screen or Slot Size:	NA
Screen Material:	NA
Casing Material: (PVC, Steel or Other-Specify):	PVC
Casing Diameter (Inches):	3.0 ID
Static Water Level From Top of Casing at The Time of Certification (one-hundredth of a foot):	+21.94 (7/13/83)
Yield (Gallons per Minute):	NA
Length of time Well Pumped or Bailed:	NA Hours Minutes
Lithologic Log:	ATTACH ON BACK

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

Professional Engineer's Signature

Professional Engineer's Name
(Please type or print)

SEAL

Professional Engineer's License #

Ref. No. 22 p. 197

MONITOR WELL INSTALLATION REPORT

Project: ESSEX CHEMICAL CORPORATION SPECIALTY CHEMICALS FACILITY
Monitor Well No. OW-4D
Location: SAYREVILLE, N.J.
Project No. 0464-02A
Installed By: Warren George, Inc.
Date: June 17, 1983

Method of Installation: A 5 in. borehole was drilled driving the casing down and taking continuous split spoon samples.

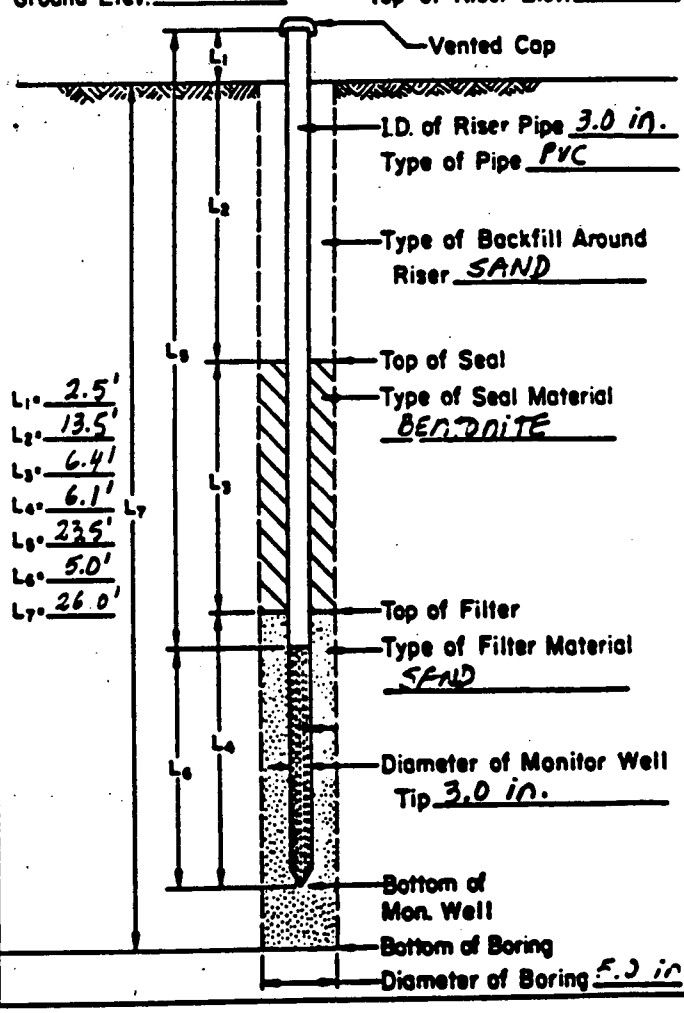
LOG OF MONITOR WELL

BORING

Depth in ft.	Description	Symbol
0	fine SAND	
	clayey fine SAND	
10	fine-Coarse SAND with clay seams	
20	silty CLAY	
	fine-Medium SAND with clay seams	
	Micaceous clayey SILT	
30		
40		

MONITOR WELL

Ground Elev. 26.84
Top of Riser Elev. 29.79



L_1 = 2.5'
L_2 = 13.5'
L_3 = 6.4'
L_4 = 6.1'
L_5 = 23.5'
L_6 = 5.0'
L_7 = 26.0'

Remarks: Boring terminated at 28 ft

Inspected By: Jim Francis
WOODWARD-CLYDE CONSULTANTS

Ref. No. 22D.198

WOODWARD–CLYDE CONSULTANTS

CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

LOG OF BORING B-4D

SHEET 1 OF 2

PROJECT AND LOCATION	ESSEX CHEMICAL PLANT, SAYREVILLE, N.J.
ELEVATION AND DATUM	26.8 ft
PROJECT NO	82C4502A
DRILLING AGENCY	Warren George, Inc.
FOREMAN	V. Gandolfo
DATE STARTED	June 17, 1983
DATE FINISHED	June 17, 1983
DRILLING EQUIPMENT	Mobile Drill - B61
COMPLETION DEPTH	28 ft.
ROCK DEPTH	Not encountered
SIZE AND TYPE OF BIT	Chopping bit
SIZE AND TYPE CORE BARREL	N.A.
NO SAMPLES	DIST 14 / UNDIST 0 / CORE 0
WATER LEVEL (FT)	FIRST 3.0' / COMPL. — / 24 HR —
CASING	5 in ID Flush Joint
CASING HAMMER	WEIGHT 300 lb. DROP 30 in.
BORING ANGLE AND DIRECTION	VERTICAL
SAMPLER	2.0 in. O.D. SPLIT SPOON
INSPECTOR	L. RIVAS
SAMPLER HAMMER	WEIGHT 140 lb. DROP 30 in

CASING PENETR. RESIST. BL/FT	DESCRIPTION	PIEZ.	DEPTH, FT	SAMPLES TYPE NUMBER	RECOV. FT	PENETR RESIST BL/6 IN	RECOVERY %	RQD	W_n %	LL, %	PL, %	-200, %	REMARKS
22 54	Brown fine SAND, numerous roots present, tr. silt. (moist)		1	S-1	7"	3 15 11 7							
30 30	Brown fine SAND, roots present, tr. silt, tr. f-gravel (moist)		2 3	S-2	0.5"	4 4 6							
- -	Brown fine SAND, tr. silt, tr. f-gravel (moist)		4 5	S-3	3"	14 20 19 20							
19 31	Light Gray, clayey fine SAND (wet)		6 7	S-4	18"	6 14 14 16							Drove ø5" casing down to 6 ft.
42 24	Light Gray fine SAND (wet) tr. silt, with alternating layers of light gray clayey sand and light gray silty sand, tr. gravel.		8 9	S-5	24"	10 11 12 24							Drove casing down to 9.5 ft.
16 21	Medium to Coarse SAND, tr. silt with variations in color and texture: light tan orange - light gray - red brick. (Wet)		10 11	S-6	15"	4 4 7 8							
24 18	Light tan Brown coarse to medium SAND, with clay seams, tr. silt (wet) Red Brick f-m SAND with clay seams, tr. silt. (wet)		12 13	S-7	16"	9 11 10 12							Drove casing down to 14 ft.
33 29	Red Brick f-m SAND with clay seams. (Wet) Light Tan Brown fine SAND, tr. silt (wet)		14 15	S-8	13"	4 5 5 5							
27 39	Alternating layers of fine SAND with clay of various colors. (wet) Light Red Brick fine SAND (wet) Light tan Brown fine SAND (wet)		16 17 18	S-9	18"	6 10 19 23							Drove casing down to 18 ft.
58 73	Light tan Brown m-f SAND. (wet) Light Gray silty CLAY (~4") (moist) Light tan Brown f-SAND with few seams of clay - (wet)		19	S-10	18"	6 9 12 13							

Ref. No. 22 p. 199

WOODWARD–CLYDE CONSULTANTS
CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

LOG OF BORING B-4D

SHEET 2 OF 2

CASING PENETR. RESIST. BL/FT	DESCRIPTION	PIEZ.	DEPTH, FT	SAMPLES TYPE NUMBER	SAMPLES RECOV. FT	SAMPLES PENETR. RESIST BL/6IN	R. CORE RECOVERY, %	RQD	INDEX TESTS W_n, %	LL, %	PL, %	-200, %	REMARKS
72	Light Red Brick f-m SAND (wet)												
	Light tan Brown f-m SAND, tr. silt clay seams at bottom and top of the sample (wet)		21	S-11	20"	9 12 16 27							
67	Light tan Brown f-m SAND with clay seams of various colors. (wet)		22										
31			23	S-12	18"	7 8 11 16							Drove casing down to 22 ft.
58	Light tan Brown m-c SAND (wet)		24										
	Light tan Brown f-m SAND (wet)					11							
	Light Gray SILT, tr. f-sand, and clay seams present (~6") (wet)		25	S-13	24"	15 19 26							Drove casing down to 24 ft.
	Light tan Brown f-m SAND with clay seams. (wet)		26			3							
	Dark Gray micaceous clayey SILT (~10") (moist)		27	S-14	20"	7 11 13							
	Boring terminated at 28 ft.		28										
			29										
			30										
			31										
			32										
			33										
			34										
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			45										

Ref. No. 22 p. 200

THIS FORM MUST BE COMPLETED BY THE PERMITTEE OR HIS/HER AGENT

GROUND WATER
MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION
(One form must be completed for each well)

Name of Permittee: ESSEX CHEMICAL CORPORATION
Name of Facility: ESSEX SAYERVILLE BOROUGH FACILITY
Location: SAYERVILLE NJ

NJPDES Permit No: NA

ENGINEER'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section (609-984-6831): This number must be permanently affixed to the well casing.	- - - - - - - - - -
Owner's Well Number (As shown on the application or plans):	CW-106 S
Well Completion Date:	3/23/79
Distance from Top of Casing (cap off) to ground surface (one-hundredth of a foot):	± .5'
Total Depth of Well (one-tenth of a foot):	± 14'
Depth to Top of Screen From Top of Casing (one-tenth of a foot):	± 4'
Screen Length (feet):	± 2'
Screen or Slot Size:	NA
Screen Material:	PVC
Casing Material: (PVC, Steel or Other-Specify):	PVC
Casing Diameter (Inches):	2" ID
Static Water Level From Top of Casing at The Time of Certification (one-hundredth of a foot):	+25.13 (7/13/83)
Yield (Gallons per Minute):	NA
Length of time Well Pumped or Bailed:	NA Hours Minutes
Lithologic Log:	ATTACH ON BACK

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

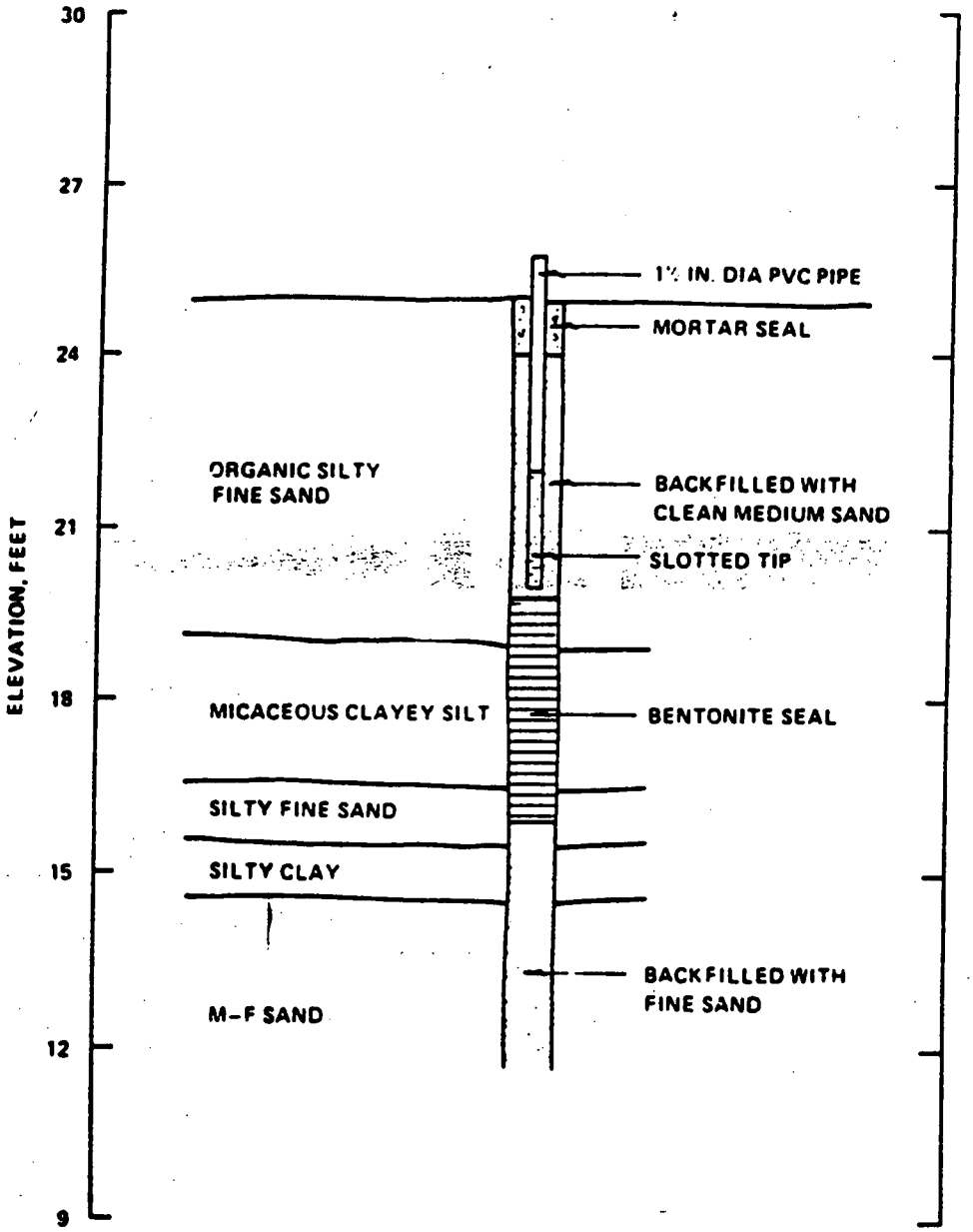
Professional Engineer's Signature

Professional Engineer's Name
(Please type or print)

SEAL

Professional Engineer's License #

Ref. No. 22p. 201



OW-106S

Ref. No. 22 p. 202

THIS FORM MUST BE COMPLETED BY THE PERMITTEE OR HIS/HER AGENT

GROUND WATER
MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION
(One form must be completed for each well)

Name of Permittee: ESSEX CHEMICAL CORPORATION
Name of Facility: ESSEX SAYERVILLE BOROUGH FACILITY
Location: SAYERVILLE, NJ

NJPDES Permit No: NA

ENGINEER'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section (609-984-6831): This number must be permanently affixed to the well casing. - -

Owner's Well Number (As shown on the application or plans): CW-106 D
Well Completion Date: 3/23/79
Distance from Top of Casing (cap off) to ground surface (one-hundredth of a foot): ±3'
Total Depth of Well (one-tenth of a foot): ±17'
Depth to Top of Screen From Top of Casing (one-tenth of a foot): ±15'
Screen Length (feet): ±2'
Screen or Slot Size: NA
Screen Material: PVC
Casing Material: (PVC, Steel or Other-Specify): PVC
Casing Diameter(Inches): 2" ID
Static Water Level From Top of Casing at The Time of Certification(one-hundredth of a foot): +26.54 (7/13/83)
Yield (Gallons per Minute): NA
Length of time Well Pumped or Bailed: NA Hours Minutes
Lithologic Log: ATTACH ON BACK

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

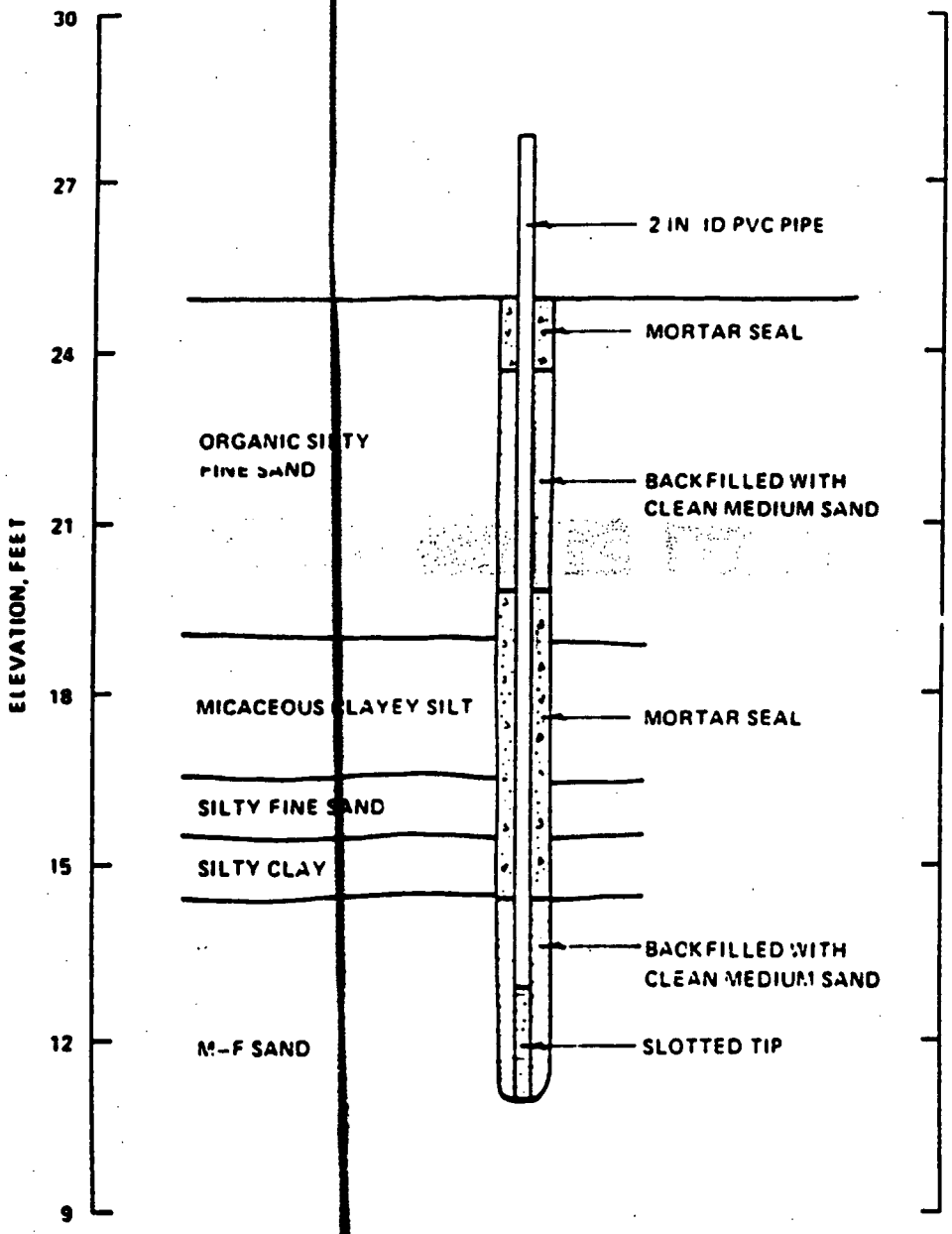
Professional Engineer's Signature

Professional Engineer's Name
(Please type or print)

SEAL

Professional Engineer's License #

Ref. No. 22 p. 203



OW-106D

Ref. No. 22 p 204

THIS FORM MUST BE COMPLETED BY THE PERMITTEE OR HIS/HER AGENT

GROUND WATER
MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION
(One form must be completed for each well)

Name of Permittee: ESSEX CHEMICAL CORPORATION
Name of Facility: ESSEX SAYERVILLE BOROUGH FACILITY
Location: SAYERVILLE, NJ

NJPDES Permit No: N.A

ENGINEER'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section (609-984-6831): This number must be permanently affixed to the well casing.	- -
Owner's Well Number (As shown on the application or plans):	CLV-107 S
Well Completion Date:	3/23/79
Distance from Top of Casing (cap off) to ground surface (one-hundredth of a foot):	±.5'
Total Depth of Well (one-tenth of a foot):	±13.5'
Depth to Top of Screen From Top of Casing (one-tenth of a foot):	±4'
Screen Length (feet):	±9.5'
Screen or Slot Size:	NA
Screen Material:	PVC
Casing Material: (PVC, Steel or Other-Specify):	PVC
Casing Diameter (Inches):	2" ID
Static Water Level From Top of Casing at The Time of Certification (one-hundredth of a foot):	+25.06 (7/13/83)
Yield (Gallons per Minute):	NA
Length of time Well Pumped or Bailed:	NA Hours Minutes
Lithologic Log:	ATTACH ON BACK

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

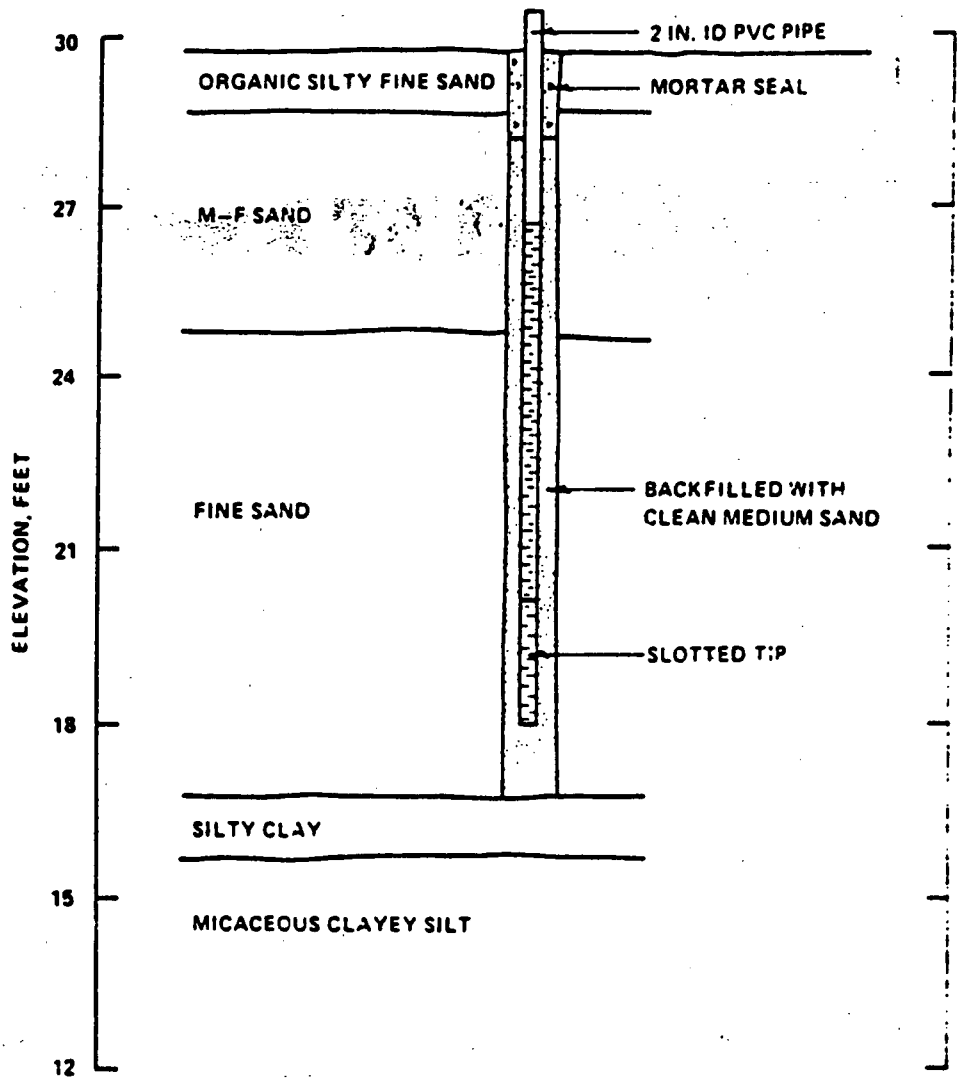
Professional Engineer's Signature

Professional Engineer's Name
(Please type or print)

SEAL

Professional Engineer's License #

Ref. No. 22 p 205



OW-107S

Ref. No. 22 p 206

THIS FORM MUST BE COMPLETED BY THE PERMITTEE OR HIS/HER AGENT

GROUND WATER
MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION
(One form must be completed for each well)

Name of Permittee: ESSEX CHEMICAL CORPORATION
Name of Facility: ESSEX SAYERVILLE BOROUGH FACILITY
Location: SAYERVILLE, NJ

NJPDES Permit No: NA

ENGINEER'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section (609-984-6831): This number must be permanently affixed to the well casing.	- - - - - - - - - -
Owner's Well Number (As shown on the application or plans):	CW-111S
Well Completion Date:	3/23/79
Distance from Top of Casing (cap off) to ground surface (one-hundredth of a foot):	±2'
Total Depth of Well (one-tenth of a foot):	±9.5'
Depth to Top of Screen From Top of Casing (one-tenth of a foot):	±4.5'
Screen Length (feet):	±4'
Screen or Slot Size:	NA
Screen Material:	PVC
Casing Material: (PVC, Steel or Other-Specify):	PVC
Casing Diameter (Inches):	2" ID
Static Water Level From Top of Casing at The Time of Certification (one-hundredth of a foot):	+23.78 (7/13/83)
Yield (Gallons per Minute):	NA
Length of time Well Pumped or Bailed:	NA Hours Minutes
Lithologic Log:	ATTACH ON BACK

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

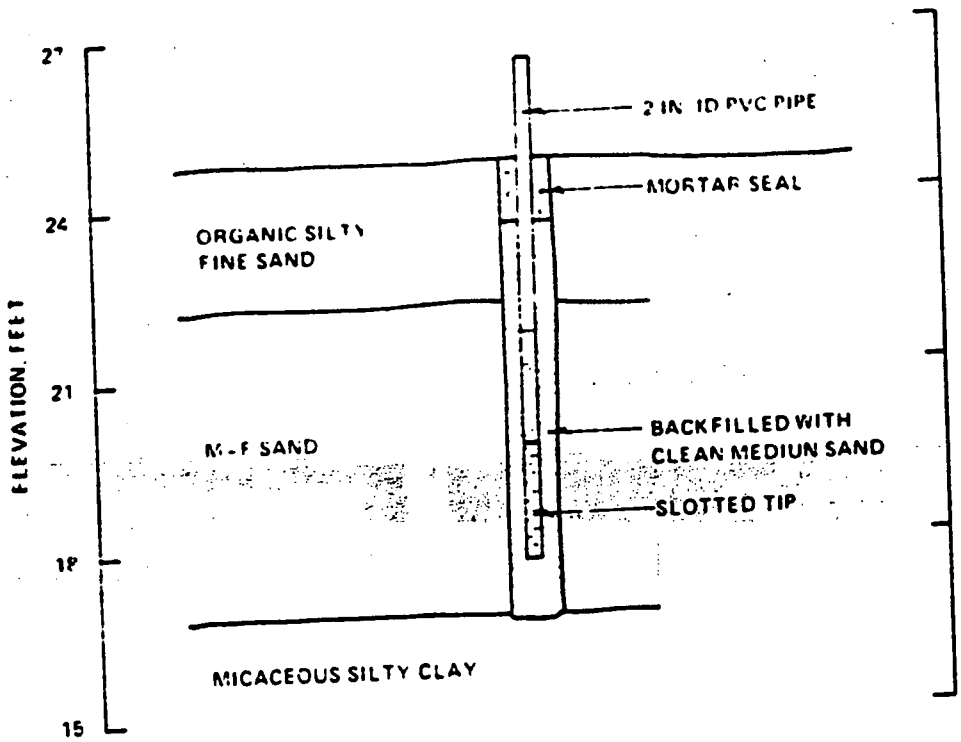
Professional Engineer's Signature

Professional Engineer's Name
(Please type or print)

SEAL

Professional Engineer's License #

Ref. No. 22 p. 207



OW-111S

Ref. No. 22 p. 208

THIS FORM MUST BE COMPLETED BY THE PERMITTEE OR HIS/HER AGENT

GROUND WATER
MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION
(One form must be completed for each well)

Name of Permittee: ESSEX CHEMICAL CORPORATION
Name of Facility: ESSEX SAYERVILLE BOROUGH FACILITY
Location: SAYERVILLE, N.J

NJPDES Permit No: NA

ENGINEER'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section (609-984-6831): This number must be permanently affixed to the well casing.	- -
Owner's Well Number (As shown on the application or plans):	FGW-111 D
Well Completion Date:	3/23/79
Distance from Top of Casing (cap off) to ground surface (one-hundredth of a foot):	±.5'
Total Depth of Well (one-tenth of a foot):	± 26'
Depth to Top of Screen From Top of Casing (one-tenth of a foot):	± 18'
Screen Length (feet):	±2'
Screen or Slot Size:	NA
Screen Material:	PVC
Casing Material: (PVC, Steel or Other-Specify):	PVC
Casing Diameter(Inches):	2" ID
Static Water Level From Top of Casing at The Time of Certification(one-hundredth of a foot):	+23.77 (7/13/83)
Yield (Gallons per Minute):	NA
Length of time Well Pumped or Bailed:	NA Hours Minutes
Lithologic Log:	ATTACH ON BACK

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

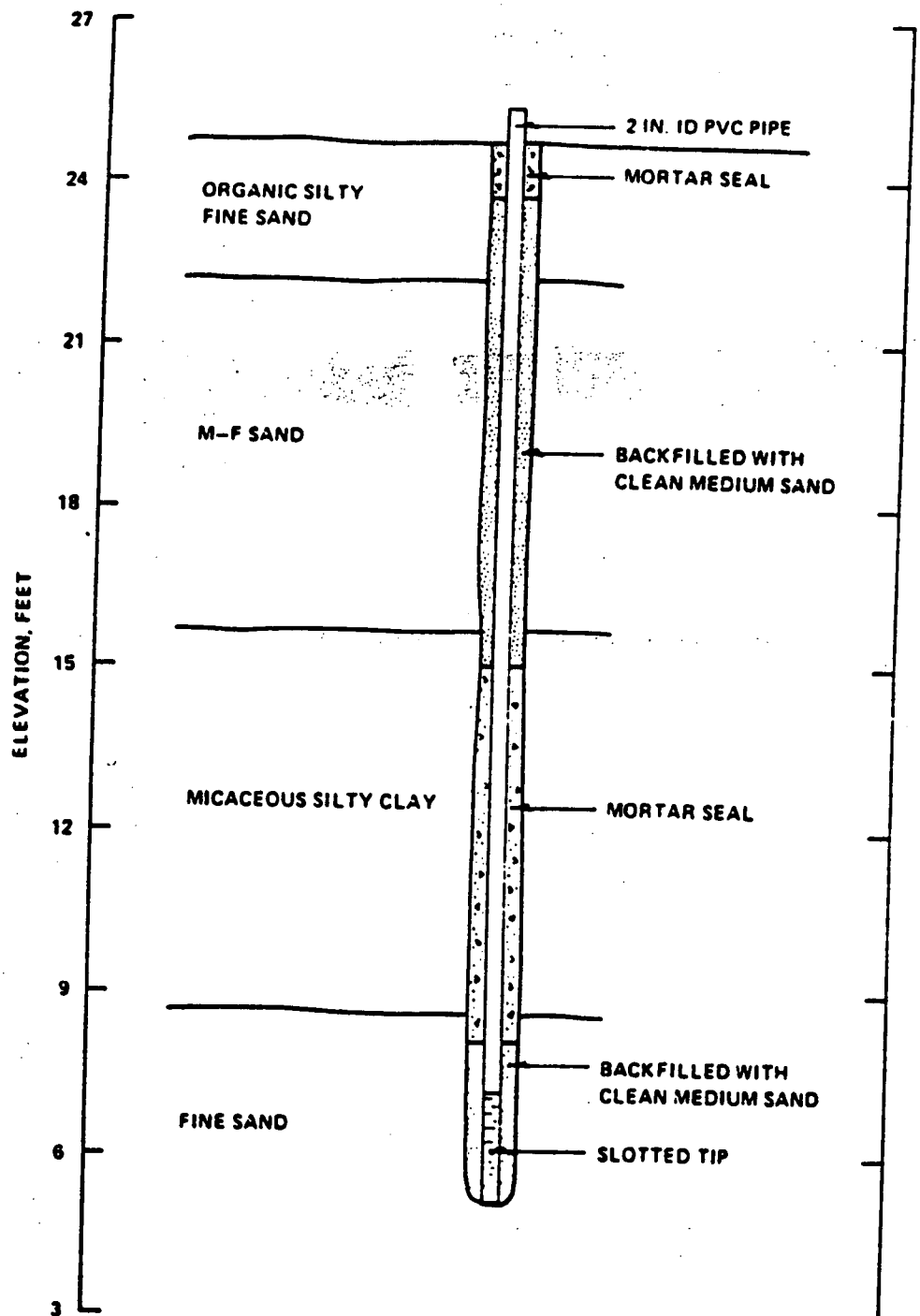
Professional Engineer's Signature

Professional Engineer's Name
(Please type or print)

SEAL

Professional Engineer's License #

Ref. No. 22P-209



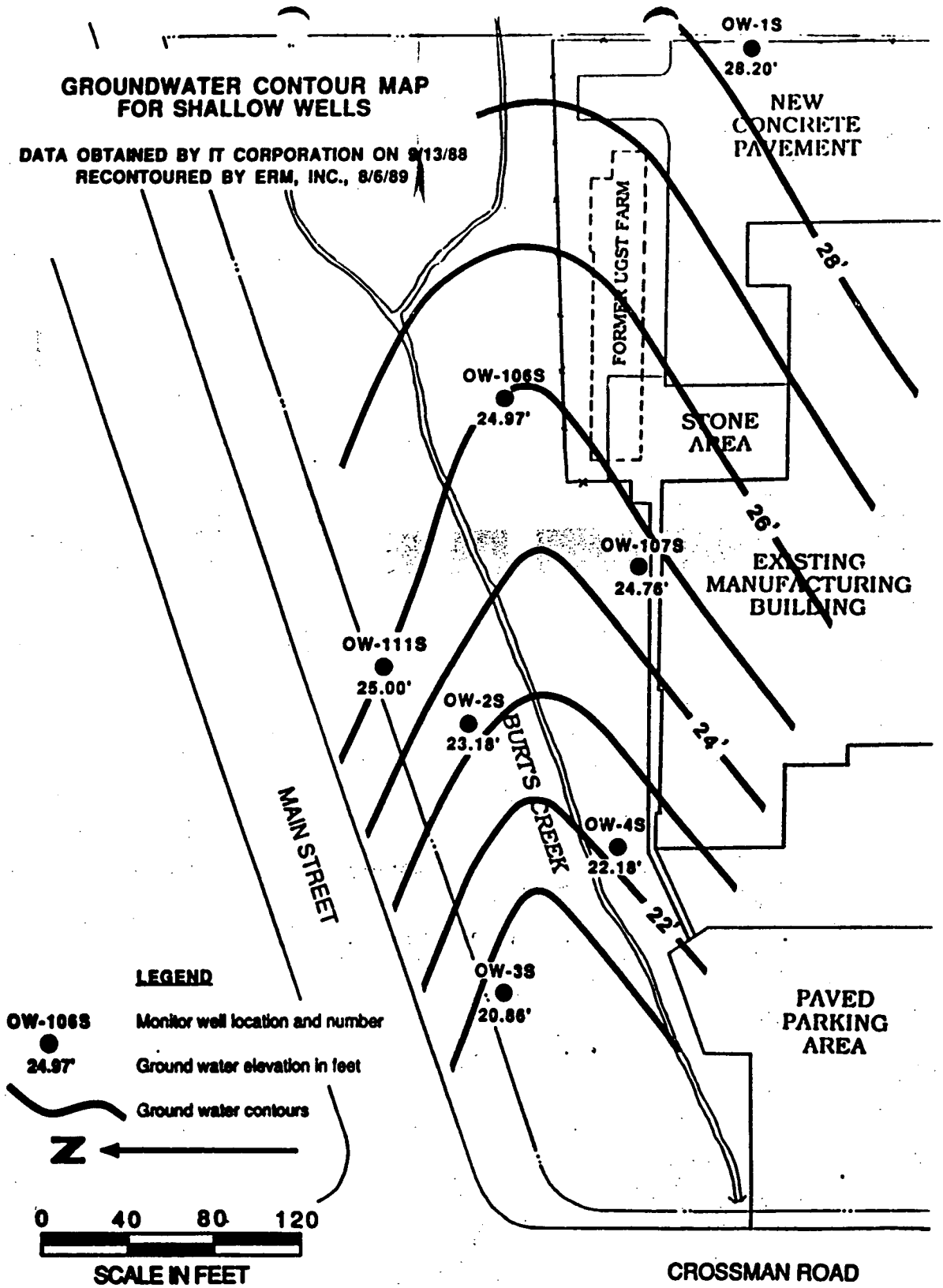
OW-111D

Ref. No. 22p.210

ATTACHMENT 11

GROUND WATER CONTOUR MAPS

Ref. No. 22 p. 211



WO#	Drawn by/Date:	Checked by/Date:	The ERM
780-05	PETER L. SUDANO	DREW A. GOULD	
	Revised by/Date:	Checked by/Date:	

Ref. No. 22 P. 2/2

ATTACHMENT 12

DOCUMENTATION ON WELLS LOCATED WITHIN ONE HALF MILE OF THE ESSEX SAYREVILLE SITE

Ref. No. 22 p. 213

SOUTH AMBOY QUADRANGLE
NEW JERSEY - NEW YORK
7.5 MINUTE SERIES (TOPOGRAPHIC)

Ref. No: 22 p.214

26-41-454

Permit No. 26-4377

Application No. _____

County _____

FORM 87

(1)

DEPARTMENT OF CONSERVATION
AND ECONOMIC DEVELOPMENT
DIVISION OF WATER POLICY & SUPPLY

WELL RECORD

1. OWNER N.J. Steel & Structural Corp ADDRESS 245 Park Ave., N.Y., N.Y. 10017

Owner's Well No. _____ SURFACE ELEVATION _____ Feet (Above mean sea level)

2. LOCATION Sayreville, Middlesex County, N.J.

3. DATE COMPLETED 4/14/72 DRILLER Gerald Compton

4. DIAMETER: top 8 Inches Bottom 8 Inches TOTAL DEPTH 165 Feet

5. CASING: Type Std. Steel P.E. Diameter 8 Inches Length _____ Feet

6. SCREEN: Type Wire Wound Size of Opening 8 Diameter 8 Inches Length 18' 7-3/4" Feet

Range in Depth { Top _____ Feet / Bottom _____ Feet } Geologic Formation Screen Removed and Well Abandoned (See Reverse Side) Kmt

Tail piece: Diameter _____ Inches Length _____ Feet

7. WELL FLOWS NATURALLY _____ Gallons per Minute at _____ Feet above surface

Water rises to _____ Feet above surface

8. RECORD OF TEST: Date 4/14/72 Yield 10 Gallons per minute

Static water level before pumping 67 Feet below surface

Pumping level _____ feet below surface after _____ hours pumping

Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown

How Pumped 15' Suction Turbine Pump How measured 5 Gallon Pail

Observed effect on nearby wells None

9. PERMANENT PUMPING EQUIPMENT:

Type _____ Mfrs. Name _____

Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____

Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet

Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches

10. USED FOR Industrial AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }

11. QUALITY OF WATER _____ Sample: Yes _____ No. X

Taste _____ Odor _____ Color _____ Temp. _____ °F

12. LOG See Reverse Side Are samples available? No

(Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy)

13. SOURCE OF DATA Wm. Stothoff Co., Inc. PO Box 68, Flemington, N.J. 08822

14. DATA OBTAINED BY Wm. Stothoff Co., Inc. Date 7/3/72

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements etc.)

Ref. No. 22 p. 215

26-11 10T

FORM 87

(2)

DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

Permit No. 26-4461
Application No. _____
County _____

WELL RECORD

1. OWNER N.J. Steel & Structural Corp. ADDRESS 245 Park Avenue, N.Y., N.Y. 10017
   Owner's Well No. _____ SURFACE ELEVATION _____ Feet (Above mean sea level)
2. LOCATION Sayreville, N.J. 2nd Well -
3. DATE COMPLETED 5/5/72 DRILLER - Gerald Compton
4. DIAMETER: top 8 Inches Bottom 8 Inches TOTAL DEPTH 192 Feet
5. CASING: Type Std. Steel P.E. Diameter 8 Inches Length 167.75 Feet
6. SCREEN: Type _____ Size of Opening _____ Diameter _____ Inches Length _____ Feet
   Range in Depth { Top _____ Feet / Bottom _____ Feet } Geologic Formation _____
   Tail piece: Diameter _____ Inches. Length _____ Feet
7. WELL FLOWS NATURALLY _____ Gallons per Minute at _____ Feet above surface
   Water rises to _____ Feet above surface
8. RECORD OF TEST: Date None Made Yield _____ Gallons per minute
   Static water level before pumping _____ Feet below surface
   Pumping level _____ feet below surface after _____ hours pumping
   Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown
   How Pumped _____ How measured _____
   Observed effect on nearby wells _____
9. PERMANENT PUMPING EQUIPMENT:
   Type _____ Mfrs. Name _____
   Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____
   Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet
   Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches
10. USED FOR Industrial AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }
11. QUALITY OF WATER _____ Sample: Yes _____ No. X
    Taste _____ Odor _____ Color _____ Temp. _____ °F
12. LOG See Reverse Side Are samples available? No
    (Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy)
13. SOURCE OF DATA Wm. Stothoff Co., Inc., PO Box 68, Flemington, N.J. 08822
14. DATA OBTAINED BY Wm. Stothoff Co., Inc. Date 5/ 1/72

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements etc.)

Ref. No. 22 p. 216

26-1129

Form 87-5M

(3)

DEPARTMENT OF CONSERVATION
AND ECONOMIC DEVELOPMENT
Division of Water Policy & Supply

WELL RECORD

Permit No. _____
Application No. _____
County _____

1. OWNER Wilson Organic Chem. Co. ADDRESS Sayreville, N.J.
   Owner's Well No. 1 SURFACE ELEVATION _____ Feet (Above mean sea level)
2. LOCATION Sayreville, N.J.
3. DATE COMPLETED June 29, 1955 DRILLER Wm Stothoff Co. Inc.
4. DIAMETER: Top 8 Inches Bottom 8 Inches TOTAL DEPTH 125 Feet
5. CASING: Type drive pipe Diameter 8 Inches Length 125 Feet
6. SCREEN: Type _____ Size of Opening _____ Diameter _____ Inches Length _____ Feet
   Range in Depth { Top _____ Feet, Bottom _____ Feet } Geologic Formation [illegible]
   Tail piece. Diameter _____ Inches Length _____ Feet
7. WELL FLOWS NATURALLY _____ Gallons per Minute at _____ Feet above surface
   Water rises to _____ Feet above surface
8. RECORD OF TEST: Date no test. Yield _____ Gallons per minute
   Static water level before pumping _____ Feet below surface
   Pumping level _____ feet below surface after _____ hours pumping
   Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown
   How Pumped _____ How measured _____
   Observed effect on nearby wells _____
9. PERMANENT PUMPING EQUIPMENT:
   Type _____ Capacity _____ Gallons per minute
   How Driven _____ Horse Power _____ R.P.M. _____
   Depth of pump in well _____ Feet Depth of Foot piece in well _____ Feet
   Depth of Air Line in well _____ Feet Type of Meter on Pump _____
10. USED FOR Well abandoned and all pipe pulled out and hole filled up to service
    AMOUNT { Average _____ Gallons Daily, Maximum _____ Gallons Daily }
11. QUALITY OF WATER _____ Sample: Yes _____ No. _____
    Taste _____ Odor _____ Color _____ Temperature _____ °F
12. LOG See other side (Give details on back of sheet or on separate sheet) Are samples available? _____
13. SOURCE OF DATA Well Statement.
14. DATA OBTAINED BY ~~Wm~~ H.J.Stothoff DATE July 6, 1955

(Note: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

Ref. No. 22 p. 217

Form DWR-138
11/80

C rd: 2641459

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

FOR MONITORING PURPOSES ONLY

PERMIT NO. 26-8773

APPLICATION NO.

COUNTY Middlesex

(11)

WELL RECORD

1. OWNER CHEVRON, U.S.A., INC. ADDRESS

Owner's Well No. SURFACE ELEVATION (Above mean sea level) Feet

2. LOCATION Lot: Block: Municipality: Sayreville Boro

3. DATE COMPLETED 3/13/86 DRILLER Warren George Inc.

4. DIAMETER: Top inches Bottom inches TOTAL DEPTH 12'6" Feet

5. CASING: Type PVC Diameter Inches Length 21 Feet

6. SCREEN: Type PVC. Size of Opening Diameter Inches Length 10'6" Feet

Range in Depth { Top Feet / Bottom Feet } Geologic Formation

Tail Piece: Diameter Inches Length Feet

7. WELL FLOWS NATURALLY Gallons per minute at Feet above surface

Water rises to Feet above surface

RECORD OF TEST: Date Yield Gallons per minute

Static water level before pumping Feet below surface

Pumping level feet below surface after hours pumping

Drawdown Feet Specific Capacity Gals. per min. per ft. of drawdown

How pumped How measured

Observed effect on nearby wells

9. PERMANENT PUMPING EQUIPMENT:

Type Mfrs. Name

Capacity G.P.M. How Driven H.P. R.P.M.

Depth of Pump in well Feet Depth of Footpiece in well Feet

Depth of Air Line in well Feet Type of Meter on Pump Size Inches

10. USED FOR AMOUNT { Average Gallons Daily / Maximum Gallons Daily }

11. QUALITY OF WATER Sample: Yes No

Taste Odor Color Temp. °F.

12. LOG Are samples available?
(Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)

13. SOURCE OF DATA

DATA OBTAINED BY WARREN GEORGE, INC. Date 6/9/86

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

Ref. No. 22 p. 218

5

26.41.427

JOB LOCATION: Parlin N.J.	WARREN GEORGE, INC. FOOT OF JERSEY AVENUE P. O. BOX 413 JERSEY CITY, N.J. 07303 FOR: Groundwater Technology	SHEET 1 OF 1 LOCATION Parlin N.J. HOLE NO. 26-8773-1 LINE & STA. OFFSET

DEPTH _____ FT. ____ FT. CASING OUT DATE: _____
DEPTH _____ FT. ALL CASING OUT DATE: _____

DATE, START: 3/13/86
DATE, FINISH: 3/13/86

GROUND ELEVATION _____
GROUND WATER ELEVATION _____

CASING O.D. 4" I.D. _____
SAMPLER O.D. 2" I.D. _____
DIAMOND BIT SIZE _____

WEIGHT OF HAMMER 140 LBS.
INSIDE LENGTH OF SAMPLER _____ IN.

HAMMER FALL
CASING _____ SAMPLER 30"

DEPTH BELOW SURFACE	CASING BLOWS PER FOOT	SAMPLE NUMBER	SAMPLE DEPTHS ELEV. / FEET	SAMPLE RECOVERY	BLOWS PER 6" ON SAMPLER 0-6	6-12	12-18	DENSITY OR CONSIST. MOISTURE	PROFILE CHANGE DEPTH	FIELD IDENTIFICATION OF SOILS REMARKS
0									0'-5'	Miscellanesou rubble fill
		1	5'-7'		No Blows Required					
10										Red Silty Clay with Rock fragments
		2	10'-12'						5'-12'6"	
20										
30										
40										

Soils Engineer: _____ Driller: _____
Drilling Inspector: _____ Helper: _____

Ref. No. 22p.219

22

Form 87

(6)

26-41-451

DEPARTMENT OF CONSERVATION
AND ECONOMIC DEVELOPMENT
DIVISION OF WATER POLICY & SUPPLY

WELL RECORD

Permit No. 26-34-53
Application No. _____
County Middlesex

1. OWNER SAYREVILLE BOARD of EDUCATION ADDRESS 425 MAIN ST, SAYREVILLE
Owner's Well No. _____ SURFACE ELEVATION _____ Feet (Above mean sea level)

2. LOCATION SAME

3. DATE COMPLETED AUG DRILLER LOUIS BAINBRIDGE

4. DIAMETER: top 6 Inches Bottom 6 Inches TOTAL DEPTH 76 Feet

5. CASING: Type STEEL Diameter 6 Inches Length 68 Feet

6. SCREEN: Type Johnson Size of Opening 15 Diameter 6 Inches Length 8 Feet

Range in Depth { Top 68 Feet, Bottom 76 Feet } Geologic Formation SAND

Tail piece: Diameter — Inches Length _____ Feet

7. WELL FLOWS NATURALLY _____ Gallons per Minute at _____ Feet above surface

Water rises to _____ Feet above surface

8. RECORD OF TEST: Date AUG Yield 60 Gallons per minute

Static water level before pumping 24 Feet below surface

Pumping level 76 feet below surface after 6 hours pumping

Drawdown 52 Feet Specific Capacity _____ Gals. per min. per ft. of drawdown

How Pumped AIR LIFT How measured 5 GAL. PAIL

Observed effect on nearby wells _____

9. PERMANENT PUMPING EQUIPMENT:

Type _____ Mfrs. Name _____

Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____

Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet

Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches

10. USED FOR DOMESTIC AMOUNT { Average _____ Gallons Daily, Maximum _____ Gallons Daily }

11. QUALITY OF WATER _____ Sample: Yes _____ No. _____

Taste _____ Odor _____ Color _____ Temp. _____ °F

12. LOG ✓ Are samples available? _____
(Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy)

13. SOURCE OF DATA _____

14. DATA OBTAINED BY _____ Date _____

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements etc.)

Ref. No. 22 p. 220

7

26 41.460

Form 87-5M

DEPARTMENT OF CONSERVATION
AND ECONOMIC DEVELOPMENT
Division of Water Policy & Supply

WELL RECORD

Permit No. 26-1387
Application No. _____
County Middlesex

1. OWNER (Titanium Division) NATIONAL LEAD COMPANY ADDRESS P.O. Box 58, South Amboy, N.J.
   Owner's Well No. Test SURFACE ELEVATION _____ Feet (Above mean sea level)
2. LOCATION South Amboy, New Jersey
3. DATE COMPLETED 6/12/56 DRILLER Layne-New York Co., Inc.
4. DIAMETER: Top 6 Inches Bottom 6 Inches TOTAL DEPTH 84 Feet
5. CASING: Type Steel Diameter 6 Inches Length 75 Feet
6. SCREEN: Type S.S. Size of Opening Shutter Diameter 6 Inches Length 5 Feet
   Range in Depth { Top 75 Feet, Bottom 80 Feet } Geologic Formation Medium to coarse white sand and gravel, streaks of white clay
   Tail piece. Diameter 6 Inches Length 2 Feet
7. WELL FLOWS NATURALLY _____ Gallons per Minute at _____ Feet above surface
   Water rises to _____ Feet above surface
8. RECORD OF TEST: Date 6/12/56 Yield 0 Gallons per minute
   Static water level before pumping 76'-8" Feet below surface
   Pumping level _____ feet below surface after _____ hours pumping
   Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown
   How Pumped _____ How measured _____
   Observed effect on nearby wells _____
9. PERMANENT PUMPING EQUIPMENT:
   Type _____ Capacity _____ Gallons per minute
   How Driven _____ Horse Power _____ R.P.M. _____
   Depth of pump in well _____ Feet Depth of Foot piece in well _____ Feet
   Depth of Air Line in well _____ Feet Type of Meter on Pump _____
10. USED FOR Test AMOUNT { Average _____ Gallons Daily, Maximum _____ Gallons Daily }
11. QUALITY OF WATER _____ Sample: Yes _____ No. _____
    Taste _____ Odor _____ Color _____ Temperature _____ °F
12. LOG See Reverse Side (Give details on back of sheet or on separate sheet) Are samples available? _____
13. SOURCE OF DATA Layne-New York Company, Inc.
14. DATA OBTAINED BY Layne-New York Company, Inc. DATE Jan. 29, 1957

(Note: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

Ref. No. 22 p. 221

26.41 4 74

Form 67-10a

DEPARTMENT OF CONSERVATION
AND ECONOMIC DEVELOPMENT
DIVISION OF WATER POLICY & SUPPLY

Permit No. 29-1297
Application No. _____
County _____

WELL RECORD

1. OWNER Shotmeyer Station ADDRESS Sayreville
Owner's Well No. 1 SURFACE ELEVATION _____ Feet (Above mean sea level)
2. LOCATION Rt 34 9. Sayreville Middlesex County
3. DATE COMPLETED Dec 14. 60 DRILLER John Kendal
4. DIAMETER: top 4 Inches Botton 4 Inches TOTAL DEPTH 154 Feet
5. CASING: Type Steel Diameter 4 Inches Length _____ Feet
6. SCREEN: Type INSERT Size of Opening 18" Diameter 4 Inches Length 6 Feet
Range { Top _____ Feet, Bottom _____ Feet } Geologic Formation Old Bridge Sands
Tail piece. Diameter _____ Inches Length _____ Feet
7. WELL FLOWS NATURALLY _____ Gallons per Minute at _____ Feet above surface
Water rises to _____ Feet above surface
RECORD OF TEST: Date Dec 14. 60 Yield 40 Gallons per minute
Static water level before pumping 75 Feet below surface
Pumping level 84 feet below surface after 8 hours pumping
Drawdown 9 Feet Specific Capacity _____ Gals. per min. per ft. of drawdown
How Pumped power Pump How measured tether
Observed effect on nearby wells none
8. PERMANENT PUMPING EQUIPMENT:
Type Submersible Mfrs. Name Myers
Capacity 12 G.P.M. How Driven electric H.P. 3/4 R.P.M. _____
Depth of Pump in well 105 Feet _____ Depth of Footpiece in well _____ Feet
Depth of Air Line in well _____ Feet _____ Depth of Meter on Pump _____
10. USED FOR Gas Station AMOUNT Average 300 Gallons Daily
Maximum 400 Gallons Daily
11. QUALITY OF WATER good Sample: Yes ____ No. ____
Taste none Odor non Color clear Temp. _____ °F
12. LOG _____ Are samples available _____
(Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy)
13. SOURCE OF DATA _____
14. DATA OBTAINED BY John Kendal Date Dec 14. 60

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements etc.)

Ref. No. 22 P: 222

(9) Form DWR-138
11/80

ord: 2641461

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

FOR MONITORING PURPOSES ONLY

PERMIT NO. 26-8682

APPLICATION NO. _____

COUNTY Middlesex

WELL RECORD

1. OWNER N.J. STEEL CORPORATION ADDRESS CROSSMAN RD. NORTH (PO BOX 11)

Owner's Well No. _____ SURFACE ELEVATION _____ Feet (Above mean sea level)

2. LOCATION Lot: 1-F Block: 246 Municipality: Sayreville Boro

3. DATE COMPLETED 6-9-86 DRILLER Tiger Construction Corp.

4. DIAMETER: Top 4 inches Bottom 4 inches TOTAL DEPTH 60 Feet

5. CASING: Type _____ Diameter 4 Inches Length _____ Feet

6. SCREEN: Type _____ Size of Opening _____ Diameter 4 Inches Length _____ Feet

Range in Depth { Top _____ Feet / Bottom _____ Feet } Geologic Formation _____

Tail Piece: Diameter _____ Inches Length _____ Feet

7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface

Water rises to _____ Feet above surface

8. RECORD OF TEST: Date 6-9-86 Yield _____ Gallons per minute

Static water level before pumping _____ Feet below surface

Pumping level _____ feet below surface after _____ hours pumping

Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown

How pumped AIR How measured ORAFICE

Observed effect on nearby wells none.

9. PERMANENT PUMPING EQUIPMENT:

Type _____ Mfrs. Name _____

Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____

Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet

Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches

10. USED FOR Monitoring AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }

11. QUALITY OF WATER _____ Sample: Yes _____ No _____

Taste _____ Odor _____ Color _____ Temp. _____ °F.

12. LOG on back Are samples available? No

(Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)

13. SOURCE OF DATA Driller

14. DATA OBTAINED BY Dennis B. Davis Date 7 July 1986

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

Ref. No. 22 p. 223

Form DWR-138
11/80

10

ord: 2641481

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

PERMIT NO. 26-8683

APPLICATION NO. _____

COUNTY Middlesex

WELL RECORD

1. OWNER N.J. STEEL CORPORATION ADDRESS CROSSMAN RD. NORTH (PO BOX 11)
   Owner's Well No. _____ SURFACE ELEVATION _____ Feet (Above mean sea level)
2. LOCATION Lot: 1-F Block: 246 Municipality: Sayreville Boro
3. DATE COMPLETED 6-9-87 DRILLER Tiger Construction Corp.
4. DIAMETER: Top 4 inches Bottom 4 inches TOTAL DEPTH 60 Feet
5. CASING: Type _____ Diameter 4 Inches Length _____ Feet
6. SCREEN: Type _____ Size of Opening _____ Diameter 4 Inches Length _____ Feet
   Range in Depth { Top _____ Feet / Bottom _____ Feet } Geologic Formation _____
   Tail Piece: Diameter _____ Inches Length _____ Feet
7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface
   Water rises to _____ Feet above surface
8. RECORD OF TEST: Date 6-9-87 Yield _____ Gallons per minute
   Static water level before pumping _____ Feet below surface
   Pumping level _____ feet below surface after _____ hours pumping
   Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown
   How pumped Air How measured OR
   Observed effect on nearby wells None
9. PERMANENT PUMPING EQUIPMENT:
   Type _____ Mfrs. Name _____
   Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____
   Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet
   Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches
10. USED FOR Monitoring AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }
11. QUALITY OF WATER _____ Sample: Yes _____ No _____
    Taste _____ Odor _____ Color _____ Temp. _____ °F.
12. LOG on Back Are samples available? _____
    (Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)
13. SOURCE OF DATA Driller
    DATA OBTAINED BY Dennis B. Davis Date 11 Sept. 1987

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

FOR MONITORING PURPOSES ONLY

Ref. No. 22 p. 224

Form DWR-138
11/69

Record: 2641481

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

PERMIT NO. 26-8684

APPLICATION NO. _____

COUNTY Middlesex

(1)

WELL RECORD

1. OWNER N.J. STEEL CORPORATION ADDRESS CROSSMAN RD. NORTH (PO BOX 11)
   Owner's Well No. _____ SURFACE ELEVATION _____ Feet (Above mean sea level)
2. LOCATION Lot: 1-F Block: 246 Municipality: Sayreville Boro
3. DATE COMPLETED 6-9-87 DRILLER Tiger Construction Corp.
4. DIAMETER: Top 4 inches Bottom 4 inches TOTAL DEPTH 60 Feet
5. CASING: Type _____ Diameter 4 Inches Length _____ Feet
6. SCREEN: Type _____ Size of Opening _____ Diameter 4 Inches Length _____ Feet
   Range in Depth { Top _____ Feet / Bottom _____ Feet } Geologic Formation _____
   Tail Piece: Diameter _____ Inches Length _____ Feet
7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface
   Water rises to _____ Feet above surface
   RECORD OF TEST: Date 6-9-87 Yield _____ Gallons per minute
   Static water level before pumping _____ Feet below surface
   Pumping level _____ feet below surface after _____ hours pumping
   Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown
   How pumped Air How measured Orifice
   Observed effect on nearby wells none
9. PERMANENT PUMPING EQUIPMENT:
   Type _____ Mfrs. Name _____
   Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____
   Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet
   Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches
10. USED FOR Monitoring AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }
11. QUALITY OF WATER _____ Sample: Yes ____ No ____
    Taste _____ Odor _____ Color _____ Temp. _____ °F.
12. LOG on back Are samples available? _____
    (Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)
13. SOURCE OF DATA Driller
14. DATA OBTAINED BY Dennis B. Davis Date 11 Sept. 1987

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

FOR MONITORING PURPOSES ONLY

Ref. No. 22 P. 225

Form DWR-138
11/80

(12)

ord: 2641481

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

PERMIT NO. 26-8685

APPLICATION NO. _____

COUNTY Middlesex

WELL RECORD

1. OWNER N.J. STEEL CORPORATION ADDRESS CROSSMAN RD. NORTH (PO BOX 11)

Owner's Well No. _____ SURFACE ELEVATION _____ Feet (Above mean sea level)

2. LOCATION Lot: 1-H Block: 246 Municipality: Sayreville Boro

3. DATE COMPLETED 6-9-87 DRILLER Tiger Construction Corp.

4. DIAMETER: Top 4 inches Bottom 4 inches TOTAL DEPTH 60 Feet

5. CASING: Type _____ Diameter 4 Inches Length _____ Feet

6. SCREEN: Type _____ Size of Opening _____ Diameter 4 Inches Length _____ Feet

Range in Depth { Top _____ Feet / Bottom _____ Feet } Geologic Formation _____

Tail Piece: Diameter _____ Inches Length _____ Feet

FOR MONITORING PURPOSES ONLY

7. WELL FLOWS NATURALLY _____ Gallons per minute at _____ Feet above surface

Water rises to _____ Feet above surface

8. RECORD OF TEST: Date 6-9-87 Yield _____ Gallons per minute

Static water level before pumping _____ Feet below surface

Pumping level _____ feet below surface after _____ hours pumping

Drawdown _____ Feet Specific Capacity _____ Gals. per min. per ft. of drawdown

How pumped Air How measured Orafice

Observed effect on nearby wells no

9. PERMANENT PUMPING EQUIPMENT:

Type _____ Mfrs. Name _____

Capacity _____ G.P.M. How Driven _____ H.P. _____ R.P.M. _____

Depth of Pump in well _____ Feet Depth of Footpiece in well _____ Feet

Depth of Air Line in well _____ Feet Type of Meter on Pump _____ Size _____ Inches

10. USED FOR Monitoring AMOUNT { Average _____ Gallons Daily / Maximum _____ Gallons Daily }

11. QUALITY OF WATER _____ Sample: Yes _____ No _____

Taste _____ Odor _____ Color _____ Temp. _____ °F.

12. LOG on Back Are samples available? _____

(Give details on back of sheet or on separate sheet. If electric log was made, please furnish copy.)

13. SOURCE OF DATA Driller

14. DATA OBTAINED BY Dennis B. Davis Date 11 Sept. 1987

(NOTE: Use other side of this sheet for additional information such as log of materials penetrated, analysis of the water, sketch map, sketch of special casing arrangements, etc.)

Ref. No. 22 p. 226

Form DWR-138
11/85

(13)

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 26 - 09449
Atlas Sheet Coordinates 26 : 41 : 483

OWNER IDENTIFICATION - Owner KAPLAN ORGANIZATION, THE
Address 2-80 TOWNE CENTER DRIVE
City NORTH BRUNSWICK State NJ Zip Code

WELL LOCATION - If not the same owner please give address. Owner's Well No. B-26
Address Proposed Shopping Center
County Middlesex Municipality SAYREVILLE BORO Lot No. 1-2 Block No. 369G

WELL USE Piezometer Status

WATER USE Average gals. daily Maximum gals. daily

WELL CONSTRUCTION
BOREHOLE DIMENSIONS
Date well completed 7 / 29 / 86
Depths: Total 57 ft. Finished 55 ft.
Diameter: Top 1.25 in. Bottom 1.25 in.
Elevation was determined using
Land Surface Elevation at well ft.
Casing Height (stick-up) above land surface 2 ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL Screens: Note Slot Size(s)
Casing 1				
Casing 2				
Casing 3				
Screen 1				
Screen 2				
Tail Piece				
Gravel Pack	10	45		Morie #2
Grout	0	10		
Grouting Method				

WELL FLOWS NATURALLY gals. per min. at ft. above the land surface.
Water rises to ft. above the land surface.

RECORD OF TEST Test Date / / no test
Static water-level before pumping 31.42 ft. below land surface. Water level ft. below land surface after hrs. of pumping.
Water level was measured using Drawdown ft.
Discharge rate measured using Discharge Rate gals. per min.
Well was pumped using Specific Capacity gals. per min. per ft. of drawdown
Observed effects on nearby wells
Water Quality (taste, odor, color, etc.)

PERMANENT PUMPING EQUIPMENT Installed by N/A Pump Type
Mfrs. Name Model
CAPACITY: Pump delivers GPM at PSI pressure.
POWER: HP at RPM Power Source
DEPTHS: Pump ft. Footpiece ft. Airline ft.
FLOW METER: Model installed on in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor HP DRILLING, INC.
Address P.O. Box 57 State N.J. Zip Code 08863
City National Park License No. 1135
Name of Driller R. Barber

Signature of Contractor Robert Harris Date 8 / 25 / 86

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Ref. No. 22 p. 227

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 26 - 09449

26.41.453

...ter: Please use the space below for the log description. Note water bearing zones ... geological formation.

Are samples available? ☒ Yes ☐ No

Drilling Method Rotary

Type of Rig Failing 1500

Aquifer/Geo. Fm. _____

LOG

Attached

DEP USE ONLY

Storet Hydrogeo Code _____

USGS Hydrogeo Code _____

Depth to Bedrock _____ ft.

Bedrock Lith. Code _____

Bedrock Fm. Code _____

Completed by _____

Date ___ / ___ / ___

Thick.	Lith.	Fm.

GWPI No. ___ - _____

NJPDES No. _____ - ___

Latitude ___ ° ___ ' ___ "

Longitude ___ ° ___ ' ___ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10" ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____

County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data ☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____

Date ___ / ___ / ___

Ref. No. 22 p. 228

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Drilling, Inc.

4 Temple Place • P.O. Box 57
National Park, New Jersey 08063
609-845-6780

26-41-483
26-09449

TEST BORINGS – WATER WELLS – PERCOLATION TESTS – MONITORING WELLS

Client: Melick-Tully Assoc.
Project: Kaplan Organization
Date: 07/29/86
Job No.: 1169
Ground Surface Elev.:
Boring No.: B-26 (Piez.) Sheet No.: 1 of 2

GROUND WATER DATA			METHOD OF ADVANCING BORING	DEPTH
DEPTH	HOUR	DATE	A Rotary	0 TO 57'
31.2'				TO
				TO

DEPTH	CASING BLOWS	SAMPLE NO.	SAMPLE DEPTH	N	SOIL CLASSIFICATION	DEPTH
		S-1	0-2'	1-7-12-11	Med. dense damp brn F/M sand tr. to some silt	
5'		S-2	5-7'	4-7-10-13	Med. dense	
10'		S-3	10-12'	8-11-10-8	Med. dense	
15'		S-4	15-17'	3-5-5-4	Med. dense	
20'		S-5	20-22'	WOR	Beige clay layer at 20-20.5' Loose wet brn. F/M Sand	
25'		S-6	25-27'	WOR-8-9-12	Loose wet	
30'		S-7	30-32'	WOR-WOR-9-4	Loose wet, some silt	
35'		S-8	35-37'	1-1-4-4	Loose wet	38'
40'					Red brn. to beige silty clay	

SS - 2" O.D. Split Spoon Sample
U - Undisturbed Sample, 3" Diameter
C - Core Drilling
N - Standard Penetration Resistance per 6" (140# hammer, 30" drop)
N.R. - No Recovery

Driller: R. Barber
Helper: K. Barber

Ref. No. 22 P. 229

IS FORM MUST BE COMPLETED BY THE PERMITTEE OR HIS/HER AGENT

GROUND WATER
MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION
(One form must be completed for each well)

e of Permittee: ESSEX CHEMICAL CORPORATION
e of Facility: ESSEX SAYERVILLE BOROUGH FACILITY
ation: SAYERVILLE, N.J.

DES Permit No: N.A.

INEER'S CERTIFICATION

l Permit Number (As assigned by NJDEP's Water ocation Section (609-984-6831): .s number must be permanently affixed to the l casing.	- - - - - - - - - -
er's Well Number (As shown on the application plans):	CLV-107 S
ll Completion Date:	3/23/79
stance from Top of Casing (cap off) to ground urface (one-hundredth of a foot):	±.5'
ta epth of Well (one-tenth of a foot):	±13.5'
pt o Top of Screen From Top of Casing one-tenth of a foot):	±4'
reen Length (feet):	±4.5'
reen or Slot Size:	NA
reen Material:	PVC
sing Material: (PVC, Steel or Other-Specify):	PVC
ing Diameter(Inches):	2" ID
atic Water Level From Top of Casing at The ime of Certification(one-hundredth of a foot):	+25.06 (7/13/83)
eld (Gallons per Minute):	NA
ngth of time Well Pumped or Bailed:	NA Hours Minutes
ithologic Log:	ATTACH ON BACK

THENTICATION:
certify under penalty of law that I have personally examined and am amiliar with the information submitted in this document and all attachnts and that, based on my inquiry of those individuals immediately sponsible for obtaining the information, I believe the submitted nformation is true, accurate and complete. I am aware that there are ignificant penalties for submitted false information including the ossibility of fine and imprisonment.

rofessional Engineer's Signature

Professional Engineer's Name
(Please type or print)

SEAL

rofessional Engineer's License #

Ref. No. 22 p. 230

26-41-483
26-09449

Drilling, Inc.

4 Temple Place • P.O. Box 57
National Park, New Jersey 08063
609-845-6780

TEST BORINGS – WATER WELLS – PERCOLATION TESTS – MONITORING WELLS

Client: Melick-Tully Assoc.
Date: 07/29/86
Project: Kaplan Organization
Job No. 1169
Boring No. B-26 (Piez.) Sheet No. 2 of 2
Ground Surface Elev.

GROUND WATER DATA			METHOD OF ADVANCING BORING	DEPTH
DEPTH	HOUR	DATE	A Rotary	0 to 57'
31.5'				TO
				TO

DEPTH	CASING BLOWS	SAMPLE NO.	SAMPLE DEPTH	SAMPLE N	SOIL CLASSIFICATION	DEPTH
		S-9	40-42'	5-9-6-6		
45		S-10	45-47'	14-18-26-37	Dense wet lt. gray F/M sand, tr. to some silt with clay layers	
50		S-11	50-52'	8-16-16-14	Beige silty clay layer at 50-50.5' with coarse sand dense wet beige C/F sand, tr. to some silt	
55		S-12	55-57'	8-16-16-14	Very tough damp beige silty clay with C/F sand inbedded throughout	5
60					Test Boring Complete At 57'	

SS - 2" O.D. Split Spoon Sample
U - Undisturbed Sample, 3" Diameter
— - Core Drilling
N - Standard Penetration Resistance per 6" (140# hammer, 30" drop)
N.R. - No Recovery

Driller R. Barber
Helper K. Barber

Ref. No. 22 p. 231

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

(14)

Well Permit No. 26 - 09448
Atlas Sheet Coordinates 26 : 41 : 483

OWNER IDENTIFICATION - Owner KAPLAN ORGANIZATION, THE
Address 2-80 TOWNE CENTER DRIVE
City NORTH BRUNSWICK State NJ Zip Code

WELL LOCATION - If not the same owner please give address. Owner's Well No. B-19
Address Proposed shopping Center
County Middlesex Municipality SAYREVILLE BORO Lot No. 1-2 Block No. 368G

WELL USE Piezometer Status

WATER USE N/A Average gals. daily Maximum gals. daily

WELL CONSTRUCTION BOREHOLE DIMENSIONS
Date well completed 7 / 31 / 86
Depths: Total 42 ft. Finished 40 ft.
Diameter: Top 1.25 in. Bottom 1.25 in.
Land Surface Elevation at well ft. Elevation was determined using
Casing Height (stick-up) above land surface — ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL Screens: Note Slot Size(s)
Casing 1		30	1.25	Hand slotted
Casing 2				
Casing 3				
Screen 1				
Screen 2				
Tail Piece				
Gravel Pack	10	32		# 2 Morrie
Grout	0	10		
Grouting Method		Tremie		

WELL FLOWS NATURALLY gals. per min. at ft. above the land surface.
Water rises to ft. above the land surface.

RECORD OF TEST Test Date / / No Test
Static water-level before pumping 20.42 ft. below land surface. Water level ft. below land surface after hrs. of pumping.
Water level was measured using Drawdown ft.
Discharge rate measured using Discharge Rate gals. per min.
Well was pumped using Specific Capacity gals. per min. per ft. of drawdown
Observed effects on nearby wells
Water Quality (taste, odor, color, etc.)

PERMANENT PUMPING EQUIPMENT Installed by N/A Pump Type
Mfrs. Name Model
CAPACITY: Pump delivers GPM at PSI pressure.
POWER: HP at RPM Power Source
DEPTHS: Pump ft. Footpiece ft. Airline ft.
FLOW METER: Model installed on in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor HP DRILLING, INC.
Address P.O. Box 57
City National Park State N.J. Zip Code 08063
Name of Driller R. Bucher License No. 1135

Signature of Contractor Robert Harrison Date 8 / 25 / 86

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Ref. No. 23.232

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 26 - 09448

26.41.483

Note: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☑ Yes ☐ No

Drilling Method Rotary

Type of Rig Failing 1500

Aquifer/Geo. Fm.

LOG

Gravel

DEP USE ONLY

Storet Hydrogeo Code

USGS Hydrogeo Code

Depth to Bedrock ft.

Bedrock Lith. Code

Bedrock Fm. Code

Completed by

Date / /

Thick.	Lith.	Fm.

GWPI No. -

NJPDES No. -

Latitude ° ' "

Longitude ° ' "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10" ☐ 20"

USGS Quadrangle

Drainage Basin Code

County/Municipality Code

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data ☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by

Date / /

Ref. No. 22 p. 233

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

26.41.483
26-09448

Drilling, Inc.

4 Temple Place • P.O. Box 57
National Park, New Jersey 08063
609-845-6780

TEST BORINGS – WATER WELLS – PERCOLATION TESTS – MONITORING WELLS

Client Melick-Tully Assoc.
Project Kaplan Organization
Boring No. B-19 (Piez.) Sheet No. 1 of 2

Date 07/31/86
Job No. 1169
Ground Surface Elev.

GROUND WATER DATA		
DEPTH	HOUR	DATE
20.5'		

	METHOD OF ADVANCING BORING	DEPTH
A	Rotary	0 TO 42'
		TO
		TO

DEPTH	CASING BLOWS	SAMPLE NO.	SAMPLE DEPTH	SAMPLE N	SOIL CLASSIFICATION	DEPTH
		S-1	0-2'	2-2-2-2	Loose damp brn. fine sand, tr. silt	
5'		S-2	5-7'	20-26-26-24	Dense wet gray brn. fine sand tr. silt	
10'		S-3	10-12'	0-0-0-4	Loose wet gray brn.	
15'		S-4	15-17'	4-8-13-18	Very tough damp lt. gray silty clay	
20'		S-5	20-22'	11-15-21-25	Hard damp	
25'		S-6	25-27'	6-11-11-14	Med. dense wet gray M/F sand, tr. silt	26.5'
					Brn to gray fine sandy silt some organics	30'
30'					Med dense wet gray silty sand	32.5'
35'		S-7	32-34'	18-29-45-61	Hard dry gray clayey silt, tr. fine sand, tr to some organics	
		S-8	35-38.5'	23-39-65	Same	
40'						

SS - 2" O.D. Split Spoon Sample
U - Undisturbed Sample, 3" Diameter
C - Core Drilling
N - Standard Penetration Resistance per 6" (140# hammer, 30" drop)
N.R. - No Recovery

Driller R. Barber
Helper K. Barber

Ref. No. 22 p. 234

26.41.483

26-09448

Drilling, Inc.

4 Temple Place • P.O. Box 57
National Park, New Jersey 08063
609-845-6780

TEST BORINGS – WATER WELLS – PERCOLATION TESTS – MONITORING WELLS

Client Melick-Tully Assoc.

Project Kaplan Organization

Boring No. B-19 (Piez.) Sheet No. 2 of 2

Date 07/31/86

Job No. 1169

Ground Surface Elev.

GROUND WATER DATA			METHOD OF ADVANCING BORING		DEPTH
DEPTH	HOUR	DATE	A	Rotary	0 TO 42'
20.5"					TO
					TO

DEPTH	CASING BLOWS	SAMPLE NO.	SAMPLE DEPTH	SAMPLE N	SOIL CLASSIFICATION	DEPTH
		S-9	40-42'	43-41-59-75	Hard dry gray clayey silt, tr. fine sand, tr. to some organics	42'
45					Test Boring Complete At 42'	

S - 2" O.D. Split Spoon Sample
U - Undisturbed Sample, 3" Diameter
— - Core Drilling
N - Standard Penetration Resistance per 6" (140# hammer, 30" drop)
N.R. - No Recovery

Driller R. Barber

Helper K. Barber

Ref No 220.235

Form DWR-138
11/85

15

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 26 - 09447
Atlas Sheet Coordinates 26 : A1 : 483

OWNER IDENTIFICATION - Owner KAPLAN ORGANIZATION, THE
Address 2-60 TOWNE CENTER DRIVE
City NORTH BRUNSWICK State NJ Zip Code

WELL LOCATION - If not the same owner please give address. Owner's Well No. 13
Address Proposed shopping center
County Middlesex Municipality SAYREVILLE BORO Lot No. 1-2 Block No. 368G

WELL USE Piezometer Status

WATER USE N/A Average gals. daily Maximum gals. daily

WELL CONSTRUCTION
BOREHOLE DIMENSIONS
Date well completed 7 / 29 / 86
Depths: Total 42 ft. Finished 40 ft.
Diameter: Top 1.25 in. Bottom 1.25 in.

Land Surface Elevation at well ft. Elevation was determined using
Casing Height (stick-up) above land surface 2 ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL Screens: Note Slot Size(s)
Casing 1		30	1.25	Hand slotted
Casing 2				
Casing 3				
Screen 1				
Screen 2				
Tail Piece				
Gravel Pack	10	32		
Grout	0	10		
Grouting Method		Tremie		

WELL FLOWS NATURALLY gals. per min. at ft. above the land surface.
Water rises to ft. above the land surface.

RECORD OF TEST Test Date No Test / /
Static water-level before pumping 4.66 ft. below land surface. Water level ft. below land surface after hrs. of pumping.
Water level was measured using Drawdown ft.
Discharge rate measured using Discharge Rate gals. per min.
Well was pumped using Specific Capacity gals. per min. per ft. of drawdown
Observed effects on nearby wells
Water Quality (taste, odor, color, etc.)

PERMANENT PUMPING EQUIPMENT Installed by N/A Pump Type
Mfrs. Name Model
CAPACITY: Pump delivers GPM at PSI pressure.
POWER: HP at RPM Power Source
DEPTHS: Pump ft. Footpiece ft. Airline ft.
FLOW METER: Model installed on in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor HP DRILLING, INC.
Address P.O. Box 57
City National Park State N.J. Zip Code 08063
Name of Driller R. Burcher License No. 1135

Signature of Contractor Robert Harrison Date 8 / 25 / 86

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

REF. NO. 22 P. 236

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 26 - 9447

26-41483

Note: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☒ Yes ☐ No

Drilling Method Rotary

Type of Rig Failing 1500

Aquifer/Geo. Fm. _____

DEP USE ONLY

Storet Hydrogeo Code _____

USGS Hydrogeo Code _____

Depth to Bedrock _____ ft.

Bedrock Lith. Code _____

Bedrock Fm. Code _____

Completed by _____

Date ___ / ___ / ___

LOG	Thick.	Lith.	Fm.
Attached			

GWPI No. ___ - ___

NJPDES No. ___ - ___

Latitude ___ ° ___ ' ___ "

Longitude ___ ° ___ ' ___ "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10" ☐ 20"

USGS Quadrangle _____

Drainage Basin Code _____

County/Municipality Code _____

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data ☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by _____

Date 83 11 [illegible] / ___ / ___

Ref. No. 22 p. 237

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

26.41.483
26-09447

Ep Drilling, Inc.

4 Temple Place • P.O. Box 57
National Park, New Jersey 08063
609-845-6780

TEST BORINGS – WATER WELLS – PERCOLATION TESTS – MONITORING WELLS

Client Melick-Tully Assoc.
Project Kaplan Organization
Boring No. B-13 (Piez.) Sheet No. 1 of 2

Date 07/28/86
Job No. 1169
Ground Surface Elev.

GROUND WATER DATA			METHOD OF ADVANCING BORING	DEPTH
DEPTH	HOUR	DATE	A Rotary	0 TO 42'
56"				TO
				TO

DEPTH	CASING BLOWS	SAMPLE NO.	SAMPLE DEPTH	N	SOIL CLASSIFICATION	DEPTH
		S-1	0-2'	5-11-17-20	Med. dense damp brn. fine sand tr. silt	
		S-2	2-4'	12-19-25-40	Dense	
5'		S-3	4-6'	9-17-18-26	Dense Possible clay at 6' (not in spoon)	
		S-4	6-8'	3-5-15-21	Med. dense wet	
10'		S-5	8-10'	4-5-6-8	Med. dense wet	
		S-6	10-12'	6-5-5-5	Med. dense wet	
15'		S-7	15-17'	4-6-9-10	Med. dense wet tan and brn. fine sand, some silt, tr. mica	
20'		S-8	20-22'	5-5-7-8	Med. dense wet brn. and gray fine sand, some silt, one small clay layer at 21'	
25'					Gray sandy clay	26'
		S-9	25-27'	9-17-27-28	Dense wet brn F/M sand, tr. silt	
30'		S-10	30-32'	17-20-27-30	Dense wet yellow brn. C/F sand	
35'		S-11	35-37'	17-36-36-43	Very dense wet yellow brn F/M sand, tr silt	
40'						

S - 2" O.D. Split Spoon Sample
U - Undisturbed Sample, 3" Diameter
— - Core Drilling
N - Standard Penetration Resistance per 6" (140# hammer, 30" drop)
N.R. - No Recovery

Driller R. Barber
Helper K. Barber

Rec No. 22 D 238

26-41-483
26-09447

Drilling, Inc.

4 Temple Place • P.O. Box 57
National Park, New Jersey 08063
609-845-6780

TEST BORINGS – WATER WELLS – PERCOLATION TESTS – MONITORING WELLS

Client Melick-Tully Assoc.
Date 07/28/86
Project Kaplan Organization
Job No. 1169
Boring No. B-13 (Piez.) Sheet No. 2 of 2
Ground Surface Elev.

GROUND WATER DATA			METHOD OF ADVANCING BORING	DEPTH
DEPTH	HOUR	DATE	A Rotary	0 TO 42'
36"				TO
				TO

DEPTH	CASING BLOWS	SAMPLE NO.	SAMPLE DEPTH	SAMPLE N	SOIL CLASSIFICATION	DEPTH
		S-12	40-42'	19-29-35-46	Very dense wet lt. gray silty fine sand	42'
45					Test Boring Complete At 42'	

S - 2" O.D. Split Spoon Sample
U - Undisturbed Sample, 3" Diameter
— - Core Drilling
N - Standard Penetration Resistance per 6" (140# hammer, 30" drop)
N.R. - No Recovery

Driller R. Barber
Helper K. Barber

2 of No. 22 P 239

Form DWR-138
11/85

16

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 26 09446
Atlas Sheet Coordinates 26 : 41 : 483

OWNER IDENTIFICATION - Owner KAPLAN ORGANIZATION, THE
Address 2-80 TOWNE CENTER DRIVE State NJ Zip Code
City NORTH BRUNSWICK

WELL LOCATION - If not the same owner please give address. Owner's Well No. B-3
Address Proposed Shopping Center
County Middlesex Municipality SAYREVILLE BORO Lot No. 1-2 Block No. 368G

WELL USE Piezometer Status

WATER USE N/A Average N/A gals. daily Maximum N/A gals. daily

WELL CONSTRUCTION
BOREHOLE DIMENSIONS
Date well completed 7 / 29 / 86
Depths: Total 42 ft. Finished 40 ft.
Diameter: Top 1.25 in. Bottom 1.25 in.
Land Surface Elevation at well ft. Elevation was determined using
Casing Height (stick-up) above land surface 2 ft.

	DEPTH TO TOP (FT.)	LENGTH (FT.)	DIAMETER (IN.)	TYPE AND MATERIAL Screens: Note Slot Size(s)
Casing 1		30	1.25	Hand slotted
Casing 2				
Casing 3				
Screen 1				
Screen 2				
Tail Piece				
Gravel Pack	10	32		
Grout	0	10		
Grouting Method	Tremie			

WELL FLOWS NATURALLY gals. per min. at ft. above the land surface.
Water rises to ft. above the land surface.

RECORD OF TEST Test Date No Test / /
Static water-level before pumping 19.5 ft. below land surface. Water level ft. below land surface after hrs. of pumping.
Water level was measured using Drawdown ft.
Discharge rate measured using Discharge Rate gals. per min.
Well was pumped using Specific Capacity gals. per min. per ft. of drawdown
Observed effects on nearby wells
Water Quality (taste, odor, color, etc.)

PERMANENT PUMPING EQUIPMENT Installed by N/A Pump Type
Mfrs. Name Model
CAPACITY: Pump delivers GPM at PSI pressure.
POWER: HP at RPM Power Source
DEPTHS: Pump ft. Footpiece ft. Airline ft.
FLOW METER: Model installed on in. diameter pipe.

CONTRACTOR - Name of Drilling Contractor HP DRILLING, INC.
Address P.O. Box 57 State N.J. Zip Code 08063
City National Park License No. 1135
Name of Driller R. Barber

Signature of Contractor Robert Harrison Date 8 / 25 / 86

COPIES: White - DEP Canary - Driller Pink - Owner Goldenrod - Health Dept.

Lot No. 22 P240

Form DWR-138
11/85

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WELL RECORD

Well Permit No. 26 - 9446

26.41.483

or: Please use the space below for the log description. Note water bearing zones or geological formation.

Are samples available? ☒ Yes ☐ No

Drilling Method Rotary

Type of Rig Failing 1500

Aquifer/Geo. Fm.

LOG

Attached

DEP USE ONLY

Storet Hydrogeo Code

USGS Hydrogeo Code

Depth to Bedrock ft.

Bedrock Lith. Code

Bedrock Fm. Code

Completed by

Date / /

Thick.	Lith.	Fm.

GWPI No. -

NJPDES No. -

Latitude ° ' "

Longitude ° ' "

Lat-Long Accuracy ☐ 1" ☐ 5" ☐ 10" ☐ 20"

USGS Quadrangle

Drainage Basin Code

County/Municipality Code

OTHER FILES: ☐ Lithologic Log ☐ Samples Available ☐ Aquifer Test ☐ Water Level Data ☐ Geophysical Logs ☐ Water Chemistry ☐ Pollution Case

Checked by

Date / /

Ref. No. 22 p.241

COPIES: White - DEP

26.41.483

26.-09446

Sp Drilling, Inc.

4 Temple Place • P.O. Box 57
National Park, New Jersey 08063
609-845-6780

TEST BORINGS – WATER WELLS – PERCOLATION TESTS – MONITORING WELLS

Client: Melick-Tully Assoc. Date: 08/29/86

Project: Kaplan Organization Job No. 1169

Boring No. B-3 (Piez.) Sheet No. 1 of 2 Ground Surface Elev.

GROUND WATER DATA			METHOD OF ADVANCING BORING	DEPTH
DEPTH	HOUR	DATE	A Rotary	0 TO 42'
19.5"				TO
				TO

DEPTH	CASING BLOWS	SAMPLE NO.	SAMPLE DEPTH	SAMPLE N	SOIL CLASSIFICATION	DEPTH
		S-1	0-2'	3-5-7-16	Med. dense damp brn fine sand	
		S-2	2-4'	12-18-17-17	Dense damp	
5'		S-3	4-6'	14-13-16-14	Dense damp brn. and gray fine sand, tr. silt	
		S-4	6-8'	8-6-5-5	Med. dense wet brn F/M sand	
10'		S-5	8-10'	6-8-11-12	Med. dense	
		S-6	10-12'	11-8-7-7	Med. dense	
15'						
		S-7	15-17'	3-3-3-3	Stiff moist gray clayey silt, tr. fine sand	
20'						
		S-8	20-22'	WOR	Loose wet brn. fine sand, tr. to some silt	
25'						25'
		S-9	25-27'	WOH-4-7-9	Stiff moist gray sandy clayey silt grading to red	
30'						
		S-10	30-32'	8-11-13-19	Very tough dry red silty clay	
35'						
		S-11	35-37'	16-15-17-25	Very tough beige silty clay and M/F sand layers	
40'						

SS - 2" O.D. Split Spoon Sample
U - Undisturbed Sample, 3" Diameter
— - Core Drilling
N - Standard Penetration Resistance per 6" (140# hammer, 30" drop)
N.R. - No Recovery

Driller R. Barber

Helper K. Barber

Ref No. 22 p.242

26.41.483

26-09446

Drilling, Inc.

4 Temple Place • P.O. Box 57
National Park, New Jersey 08063
609-845-6780

TEST BORINGS – WATER WELLS – PERCOLATION TESTS – MONITORING WELLS

Client Melick-Tully Assoc. Date 07/29/86

Project Kaplan Organization Job No. 1169

Boring No. B-3 (Piez.) Sheet No. 2 of 2 Ground Surface Elev.

GROUND WATER DATA			METHOD OF ADVANCING BORING	DEPTH
DEPTH	HOUR	DATE	A Rotary	0 to 42'
19.5"				TO
			"	TO

DEPTH	CASING BLOWS	SAMPLE NO.	SAMPLE DEPTH	SAMPLE N	SOIL CLASSIFICATION	DEPTH
		S-12	40-42'	16-20-21-33	Dense wet lt. gray M/F sand, tr. silt	42'
45'					Test Boring Complete at 42'	

S - 2" O.D. Split Spoon Sample
U - Undisturbed Sample, 3" Diameter
— - Core Drilling
N - Standard Penetration Resistance per 6" (140# hammer, 30" drop)
N.R. - No Recovery

Driller R. Barber

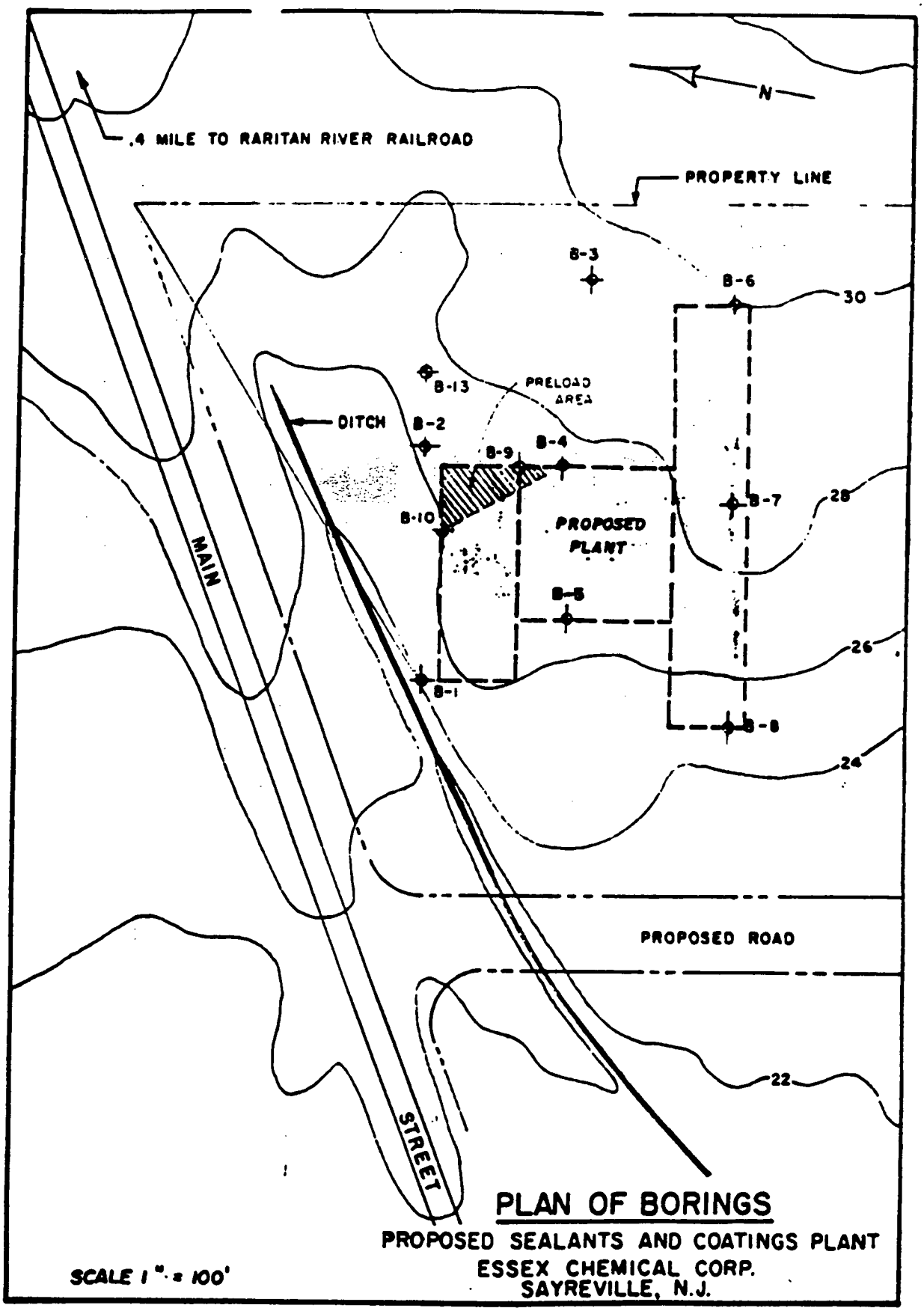
Helper k. Barber

Ref. No. 22 p. 243

ATTACHMENT 13

DOCUMENTATION ON SOIL BORING LOGS

Ref. No. 22 p. 244



PLAN OF BORINGS

PROPOSED SEALANTS AND COATINGS PLANT
ESSEX CHEMICAL CORP.
SAYREVILLE, N.J.

PLATE 1

Ref. No. 22 p. 245

64-219

LOG OF BORING NO. 1

DATE 8/14/64 SURFACE ELEV 25 (approx.) LOCATION See Plan

DEPTH, FEET	SAMPLES	* SAMPLING RESISTANCE	SYMBOL	DESCRIPTION	Elevation
0				Soft black silt and roots (topsoil)	24
		9		Medium-dense gray medium to fine sand	
		28		- becoming dense and brown	
5		24			
10		26		- becoming light gray fine sand	
15		21		- becoming mottled yellow-brown and gray, with traces of gravel	
20		18		- becoming vari-colored medium to fine sand	
25		26			
30		28			-6.5
				Completion Depth 31.5'	
35					

SAMPLER: 2-INCH O.D. SPLIT BARREL
140 LB. HAMMER, 30 INCH DROP, DRILL ROD A

DEPTH TO WATER 2.0' DATE At completion

REMARKS

* BLOWS/FOOT

PLATE 3

Ref. No. 22 p 246

LOG OF BORING NO. 3-2

DATE 8/18/64 SURFACE ELEV. 26 (approx.) LOCATION See Plan

DEPTH, FEET	SAMPLES	*SAMPLING RESISTANCE	SYMBOL	DESCRIPTION	Elevation	Moisture Content %	Atterberg Limits
0				Soft black sandy silt and roots (topsoil)	25		
		25		Very dense gray-brown silty fine sand			
		32					
5							
		26		- becoming medium to fine sand	17	42	52/31
10		3*		Soft dark gray slightly micaceous clayey silt with pieces of charred wood, traces gravel			
		10		- becoming stiff			
15		20		- becoming very stiff			
20		25		- with frequent layers of silty fine sand	4.5		
				Completion Depth 21.5'			
25				*Poor recovery			

SAMPLER: 2-INCH O.D. SPLIT BARREL
140 LB. HAMMER, 30 INCH DROP, DRILL ROD A

* BLOWS / FOOT

DEPTH TO WATER - DATE

REMARKS

PLATE 4

Ref. No. 22P.247

LOG OF BORING NO. 3

DATE 8/17/64 SURFACE ELEV 29 (approx.) LOCATION See Plan

DEPTH, FEET	SAMPLES	*SAMPLING RESISTANCE	SYMBOL	DESCRIPTION	Elevation
0				Soft black sandy silt and roots (topsoil)	28
		6		Medium-dense dark brown silty fine sand	
		15			
5					
		21		- becoming dense	
10		16		- becoming light gray silty fine sand with occasional clay streaks	
15		11		- becoming medium-dense dark gray clayey silty fine sand to sandy clayey silt	12
				Hard dark gray slightly micaceous clayey silt with occasional traces charred wood	
20		41			7.5
				Completion Depth 21.5'	
25					

SAMPLER: 2-INCH O.D. SPLIT BARREL
140 LB. HAMMER, 30 INCH DROP, DRILL ROD A

* BLOWS / FOOT

DEPTH TO WATER 2.0' DATE At completion

REMARKS

PLATE 5

Ref. No. 22 p 248

LOG OF BORING NO. 2-4

DATE 8/14/64 SURFACE ELEV 27.5 (approx.) LOCATION See Plan

DEPTH, FEET	SAMPLES	*SAMPLING RESISTANCE	SYMBOL	DESCRIPTION	Elevation
0				Black sandy silt (topsoil)	26.5
		7		Medium-dense gray-brown medium to fine sand	
		34		- becoming very dense silty fine sand to fine sand	
5		22			
10		23		- becoming light gray fine sand	
15		20		- becoming yellow-brown to light brown silty coarse to fine or medium to fine sand	
20		17			
25		22			
30		25			-4
				Completion Depth 31.5'	
35					

SAMPLER: 2-INCH O.D. SPLIT BARREL
140 LB. HAMMER, 30 INCH DROP, DRILL ROD A

DEPTH TO WATER 2.6' DATE At completion

REMARKS

* BLOWS / FOOT

PLATE 6

Ref. No. 22p 249

LOG OF BORING NO. 85

DATE 8/17/64 SURFACE ELEV. 26.5(approx.) LOCATION See Plan

DEPTH, FEET	SAMPLES	*SAMPLING RESISTANCE	SYMBOL	DESCRIPTION	Elevation
0				Topsoil	25.5
		12		Medium-dense yellow-brown clayey silty medium to fine sand	
		13			
5					20
		10		Stiff light gray to dark gray silty clay with fine sand layers	
					16.5
10		19		Dense light gray clayey silty coarse to fine sand	
15		24		- becoming yellow-brown silty coarse to fine sand with occasional clay streaks	
20		25			5
				Completion Depth 21.5'	
25					

SAMPLER: 2-INCH O.D. SPLIT BARREL
140 LB. HAMMER, 30 INCH DROP, DRILL ROD A

DEPTH TO WATER 2.0' DATE At completion

REMARKS

* BLOWS / FOOT

PLATE 7

Ref. No. 22 p. 250

LOG OF BORING NO. 6

DATE 8/17/64 SURFACE ELEV 30(approx.) LOCATION See Plan

DEPTH, FEET	SAMPLES	*SAMPLING RESISTANCE	SYMBOL	DESCRIPTION	Elevation
0				Soft black silt and roots (topsoil)	29
		13		Medium-dense dark gray-brown silty fine sand	
		31			
5					
		32			22
				Layers stiff light gray silty clay and dense clayey silty fine sand	
10		24			17.5
				Medium-dense yellow-brown silty coarse to fine sand	
15		15			
20		12		- becoming light gray clayey silty coarse to fine sand	8.5
				Completion Depth 21.5'	
30					

SAMPLER: 2-INCH O.D. SPLIT BARREL
140 LB. HAMMER, 30 INCH DROP, DRILL ROD A

DEPTH TO WATER 2.0' DATE At completion

REMARKS

* BLOWS / FOOT

PLATE 8

Ref. No. 22 p. 251

LOG OF BORING NO. B-7

DATE 8/14/64 SURFACE ELEV 28.5 (approx.) LOCATION See Plan

DEPTH, FEET	SAMPLES	*SAMPLING RESISTANCE	SYMBOL	DESCRIPTION	Elevation
0				Soft black silt and roots (topsoil)	27.2
		7		Medium-dense yellow-brown silty fine sand	
		17			
5					
		10		- becoming tan clayey silty medium to fine sand	
10		18		- becoming dense yellow-brown clayey silty coarse to fine sand with occasional clay seams	
15		27		- becoming very dense	
20		38		- becoming silty coarse to fine sand	7
				Completion Depth 21.5'	
25					

SAMPLER: 2-INCH O.D. SPLIT BARREL
140 LB. HAMMER, 30 INCH DROP, DRILL ROD A

* BLOWS / FOOT

DEPTH TO WATER 2.6' DATE At completion

REMARKS

PLATE 9

Ref. No. 22 p. 252

LOG OF BORING NO. G-8

DATE 8/13/64 SURFACE ELEV 25 (approx.) LOCATION See Plan

DEPTH, FEET	SAMPLES	*SAMPLING RESISTANCE	SYMBOL	DESCRIPTION	Elevation
0				Soft black silt and roots (topsoil)	24
		16		Medium-dense gray fine sand with trace roots	
		24		- becoming dense yellow-brown silty fine sand	
5		7		- becoming medium dense	
10		16		- with layers of red-brown silt, fine sand and stiff brown clay	
15		26		- becoming very dense yellow-brown to tan silty coarse to fine sand with occasional clay seams	
20		35			3.5
				Completion Depth 21.5'	
25					

SAMPLER: 2-INCH O.D. SPLIT BARREL
140 LB. HAMMER, 30 INCH DROP, DRILL ROD A

DEPTH TO WATER 2.0' DATE At completion

REMARKS

* BLOWS / FOOT

PLATE 10

Ref. No. 22 p. 253

LOG OF BORING NO. B-9

DATE 8/31/64 SURFACE ELEV. 27 (approx.) LOCATION See Plan

DEPTH, FEET	SAMPLES	*SAMPLING RESISTANCE	SYMBOL	DESCRIPTION	Elevation	Moisture Content %	Atterberg Limits
0					27		
				Black topsoil	26		
		26		Dense gray-brown fine sand			
5							
10					17		
		5		Firm dark gray slightly micaceous clayey silt		32	45/29
					12.5		
15		16		Medium-dense brown becoming yellow-brown fine sand			
					10.5		
20							
25							

SAMPLER: 2-INCH O.D. SPLIT BARREL
140 LB. HAMMER, 30 INCH DROP, DRILL ROD ____

* BLOWS / FOOT

DEPTH TO WATER ____ DATE ____

REMARKS ____

PLATE 11

Ref. No. 22 p. 254

LOG OF BORING NO. g-10

DATE 8/31/64 SURFACE ELEV. 26 (approx.) LOCATION See Plan

DEPTH, FEET	SAMPLES	*SAMPLING RESISTANCE	SYMBOL	DESCRIPTION	Elevation
0				Topsoil	26
				Yellow-brown fine sand	
5					
10				- becoming light gray	
				- becoming yellow-brown silty fine sand	
15					
20					6
				Completion Depth 20'	
				Drilled without sampling	
25					

SAMPLER: 2-INCH O.D. SPLIT BARREL
140 LB. HAMMER, 30 INCH DROP, DRILL ROD ____

DEPTH TO WATER ____ DATE ____

REMARKS ____

* BLOWS / FOOT

PLATE 12

Ref. No. 22 p. 255

LOG OF BORING NO. B-13

DATE 8/31/64 SURFACE ELEV 26 (approx.) LOCATION See Plan

DEPTH, FEET	SAMPLES	# SAMPLING RESISTANCE	SYMBOL	DESCRIPTION	Elevation
0				Black Topsoil	25
				Dense gray-brown fine sand with occasional clay streaks	
5		26			-18.5
				Layers gray-brown silty fine sand and dark gray slightly micaceous clayey silt	
10		11			12
				Tan silty fine sand with seams gray-brown clayey silt	
15					9.5
				Completion Depth 16.5'	
20					

SAMPLER: 2-INCH O.D. SPLIT BARREL
140 LB. HAMMER, 30 INCH DROP, DRILL ROD A

BLOWS / FOOT

DEPTH TO WATER 3.0' DATE At completion

REMARKS

Ref. No. 22p. 256

LOG OF BORING NO. B-10

DATE 18 Jan 1979 SURFACE ELEV. +29 ft LOCATION See Fig. 1

DEPTH, FEET	SAMPLES	SAMPLING RESISTANCE *	ELEV. (FT)	DESCRIPTION
0			28	ASPHALT PAVEMENT
		22		Gray fine SAND, trace to some silt, trace m. sand
		57		
5				
		36		
		48		
10		45		
		19	16	
		12		Dark Gray micaceous SILT, occasional layers of fine sand
15				
		14		
		36		
20		22	8	Alternating layers of dark gray micaceous SILT and Gray fine SAND
		42	6	BORING TERMINATED AT 23 FT
25				

SAMPLER: 2-INCH O.D. SPLIT BARREL
140 LB. HAMMER, 30 INCH DROP

DEPTH TO WATER (FT) 4 DATE 1-18-79

REMARKS

* BLOWS / FOOT

Ref. No. 22 p. 257

WOODWARD-CLYDE CONSULTANTS
CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

LOG OF BORING B-101 SHEET 1 OF 2

Project and Location: sex Chemical Plant, Sayreville, New Jersey		Elevation and Datum: + 29 Ft	Project No.: 78C552
Contractor: Warren George, Inc.	Foreman: K. Reid	Date Started: 18 January 1979	Date Finished: 18 January 1979
Drilling Equipment: Truck Mounted Acker AD2 Auger Rig		Completion Depth: 23 Ft	Holes I.D.: Not Encountered
Drilling Fluid or Mud: N.A.	Size and Type Core Barrel: N.A.	Hole Diameter: Start 12	Hours: 0 / Lost: 0
CASING 2.5 in ID HSA		Water Level: Start 5 Ft	Finish 4 Ft / Date --
CASING HAMMER	WEIGHT --	DROP --	Boring Angle and Direction: Vertical
SAMPLER 2 in OD Split Spoon			
SAMPLER HAMMER	WEIGHT 140 lbs	DROP 30 in	Inspector: R. Gaibrois

DESCRIPTION	Depth, Ft	Samples: Type	Number	Penetration Resistance	W_n,%	LL,%	PL,%	-200,%	REMARKS
ASPHALT PAVEMENT		SS	S-1	0.3					+ Used 300lb casing hammer to drive SS sampler
Light Brown fine SAND, trace m. sand, trace silt	1–2	SS	S-2	1.2					17, 14, 10, 12
Gray fine SAND, trace to some silt, trace m. sand	3–4	SS	S-3	1.0					21, 24, 30, 27
Green-Gray fine SAND, trace to some silt, trace m. sand	5–6	SS	S-4	1.8					10, 19, 19, 17 — Water first encountered at 5 ft
SAME AS ABOVE	7–8	SS	S-5	2.0					27, 27, 24, 24 — Water sample taken (WS-1)
Brown-Gray fine SAND, some silt, some m. sand	9–10	SS	S-6	2.0				12.4%	11, 19, 19, 26
SAME AS ABOVE	11–12	SS	S-7	T 2.0					16, 10, 8, 1:
Gray fine SAND, trace silt, trace m. sand	13			B					
Dark Gray silty CLAY	14	SS	S-8	2.0					2, 3, 5, 7
Dark Gray clayey silt, occ layers of f. sand	15–16	SS	S-9	1.6					2, 4, 5, 9
Dark Gray SILT, layers of fine sand	17–18	SS	S-10	2.0					10, 16, 16, 20
Dark Gray micaceous SILT, layers of f. sand	19	SS	S-11	2.0					9, 13

Ref. No. 22 p. 258

WOODWARD-CLYDE CONSULTANTS

CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

LOG OF BORING B-101 SHEET 2 OF 2

DESCRIPTION	DEPTH, FT	SAMPLES			W_n, %	LL, %	PL, %	-200, %	REMARKS
Dark Gray micaceous SILT, layers of fine sand	21	SS S-11	2.0	9 13					
Dark Gray micaceous SILT & layers (2 in) of gray fine SAND	22	SS S-12	1.2	11 13 20 22					
BORING TERMINATED AT 23 FT	23								
	24								
	25								

Ref. No. 22 p. 259

LOG OF BORING NO. B-10

DATE 18-19 Jan 1979 SURFACE ELEV. +29 ft LOCATION See Fig 1

DEPTH, FEET	SAMPLES	SAMPLING RESISTANCE *	ELEV. (FT)	DESCRIPTION
0			28	ASPHALT PAVEMENT
		37		Brown and Gray fine SAND, trace silt, trace m. sand
		59		
5		46		
		20	20.5	
10		24		Gray clayey SILT, occasional layers of fine sand, occasional pieces charred wood
		41		
		22	14	
15		18		Tan and Gray fine SAND, trace silt, trace m. sand
		16	10	BORING TERMINATED AT 19 FT
20				
25				

SAMPLER: 2-INCH O.D. SPLIT BARREL
140 LB. HAMMER, 30 INCH DROP

DEPTH TO WATER (FT) 4 DATE 1-19-79
3.5 1-22-79

REMARKS

* BLOWS / FOOT

Ref. No. 22 p. 260

CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

LOG OF BORING B-102 SHEET 1 OF 1

Project and Location: Essex Chemical Plant, Sayreville, New Jersey		Elevation and Datum: + 29 Ft	Project No.: 78C552
Contractor: Warren George, Inc.	Foreman: K. Reid	Date Started: 18 January 1979	Date Finished: 19 January 1979
Drilling Equipment: Truck Mounted Acker AD2 Auger Rig		Completion Depth: 19 Ft	Rock Depth: Not Encountered
Size and Type of Bit: N.A.	Size and Type Core Barrel: N.A.	No. Samples: Dist 9	Undist 0 / Core 0
CASING 2.5 in ID HSA		Water Level: First 5 Ft	Sample 4 Ft / 3.5 Ft
CASING HAMMER	WEIGHT --	DROP --	Boring Angle and Direction: Vertical
SAMPLER 2 in OD Split Spoon			Inspector: R. Gaibrois
SAMPLER HAMMER	WEIGHT 140 lbs	DROP 30 in	

DESCRIPTION	DEPTH, FT	Type No. Log	Recov. Ft	Penetr. Resist. Blows	W_n,%	LL,%	PL,%	-200,%	REMARKS
ASPHALT PAVEMENT									
Light Brown fine SAND, trace m. sand, trace silt, occ. pieces c. sand and f. gravel	1–3	SS S-1	1.8	12, 18, 15, 22					
Light Brown fine SAND, trace m. sand, trace silt	3–5	SS S-2	2.0	14, 24, 28, 31				7.1%	
Green-Brown fine SAND, trace m. sand, trace silt	5–7	SS S-3	1.4	9, 18, 23, 23					Water first encountered at 5 ft
Light Gray m-f SAND	7–9	SS S-4 T B	1.8	12, 6, 9, 11					
Light Gray SILT, occ. layers of f. sand	9–11	SS S-5 T B	1.9	5, 6, 11, 13					Water Sample Taken (WS-2)
Dark Gray clayey SILT									
Gray clayey SILT, occ layers of f. sand	11–13	SS S-6 T M B	1.9	15, 16, 20, 21					
Dark Gray clayey SILT, containing 2" thick seam of charred wood									
Dark Gray clayey SILT, occ layers f. sand	13–15	SS S-7 T B	1.8	6, 18, 10, 12					
SAME AS ABOVE									
Dark Gray clayey SILT, streaked with light Gray clayey silt									
Tan and Gray fine SAND, trace m. sand, trace silt	15–17	SS S-8 T B	2.0	2, 3, 7, 11					Water Sample Taken (WS-3)
Tan fine SAND, trace m. sand, trace silt, occ. pieces f. gravel and c. sand									
Light Gray f-m SAND, trace silt	17–19	SS S-9 T B	1.7	2, 2, 6, 10					
Tan f. SAND, trace silt									
BORING TERMINATED AT 19 FT	19								

Ref. No. 22 p. 261

LOG OF BORING NO. B-103

DATE 19 Jan 1979 SURFACE ELEV. +29 ft LOCATION See Fig 1

DEPTH, FEET	SAMPLES	* SAMPLING RESISTANCE	ELEV. (FT)	DESCRIPTION
0			29	ASPHALT PAVEMENT
		35		Brown and Gray silty fine SAND
5		70		
		8	23	
		27		Light Gray clayey SILT, occasional layers of f. sand
			20	
10		20		Light Gray fine SAND, trace to some silt
		20		
15		32		
		16	12	
		50		Gray and Pink c-f SAND
20		51		
		64		
25		58		
		52		
		52	1	
30		96		Dark Gray micaceous clayey SILT, occasional layers of fine sand
			-2.5	
		47		Gray silty fine SAND
35		18	-7	
				BORING TERMINATED AT 36 FT

SAMPLER: 2-INCH O.D. SPLIT BARREL
140 LB. HAMMER, 30 INCH DROP

DEPTH TO WATER (FT) 4 DATE 1-19-79
1.5 1-22-79
REMARKS Observation Well Installed

* BLOWS/FOOT

Ref. No 22 p. 262

WOODWARD-CLYDE CONSULTANTS

CONSULTING ENG[illegible]RS, GEOLOGISTS AND ENVIRONMENTAL SCI[illegible]ISTS

LOG OF BORING B-103

SHEET 1 OF 2

Project and Location: Essex Chemical Plant, Sayreville, New Jersey		Elevation and Datum: + 29 Ft	Project No.: 78C552
Drilling Agency: Warren George, Inc	Foreman: K. Reid	Date Started: 19 January 1979	Date Finished: 19 January 1979
Drilling Equipment: Truck Mounted Acker AD2 Auger Rig		Completion Depth: 36 Ft	Rock Depth: Not Encountered
Size and Type of Bit: N.A.	Size and Type Core Barrel: N.A.	No. Samples: Dist 18	Undist 0 / Core 0
CASING 2.5 in ID HSA		Water Level: First 4 Ft	Compl 4 Ft / Hour 1.5 Ft
CASING HAMMER	WEIGHT --	DROP --	Boring Angle and Direction: Vertical
SAMPLER 2 in OD Split Spoon			Inspector: R. Gaibrois
SAMPLER HAMMER	WEIGHT 140 lbs	DROP 30 in	

DESCRIPTION	DEPTH, FT	Type / No.	Recov., FT	Penetr. Resist. Blows	W_n,%	LL,%	PL,%	-200,%	REMARKS
ASPHALT PAVEMENT									
Dark Brown silty clayey fine SAND, trace m. sand, occ. fine roots	1	SS S-1 T	1.8	27					
Dark Brown - Black silty fine SAND, occ. fine roots	2	SS S-1 B	1.8	17 18 17					
Dark Brown - Black silty fine SAND, trace m. sand	3	SS S-2 T	1.7	29					
Light Gray fine SAND, trace silt, occ. pieces organic material	4	SS S-2 B	1.7	34 35 35					Water first encountered at 4 ft
Light Gray and Tan fine SAND, trace silt	5	SS S-3 T	1.5	5					
White - Light Gray silty CLAY, occ. layers fine SAND	6	SS S-3 B	1.5	8 4 4	20.5%	32%	20%		
SAME AS ABOVE	7	SS S-4	1.9	6 9 12 13					
Light Gray silty fine SAND	9	SS S-5	1.8	4 7 8 12					
SAME AS ABOVE	11	SS S-6 T	1.9	3 9 9 11					
Tan fine SAND, trace silt	12	SS S-6 B	1.9						
Light Gray m-f SAND, trace c. sand	13	SS S-7	2.0	9 10 14 18					Water Sample Taken (WS-4)
Light Gray m-f SAND	15	SS S-8	2.0	4 7 7 9					
Tan - Gray c-f SAND, occ layers of silt	17	SS S-9	1.5	18 19 24 26					
Gray c-f SAND	19	SS S-10	1.4	10 17					

Ref. No. 22 D. 263

WOODWARD-CLYDE CONSULTANTS

CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

LOG OF BORING B-103 SHEET 2 OF 2

DESCRIPTION	DEPTH, FT.					W_n,%	LL,%	PL,%	-200,%	REMARKS
Gray c-f SAND	21	SS	S-10	1.4	21, 30					
Gray and Pink m-f SAND	22	SS	S-11	1.8	23, 21, 29, 35					
Gray and Pink m-f SAND, some c. sand	24	SS	S-12	1.7	8, 21, 27, 31					
Tan fine SAND, trace m. sand	26	SS	S-13	1.9	6, 8, 20, 32					
SAME AS ABOVE	27	T								
Dark Gray clayey SILT, occ pieces charred wood	28	SS	S-14	1.5	21, 25, 26, 26					
Gray micaceous clayey SILT, occ layers of fine sandy silt	29	T								
Dark Gray micaceous SILT	30	SS	S-15	1.9	22, 36, 42, 54					
Dark Gray micaceous clayey SILT, occ layers fine sand	31		S-16	2	200/4"	18.9%	32%	20%		
Dark Gray silty fine SAND, occ layers gray silt	32	T								
Tan - Gray fine SAND, trace silt	33	SS	S-17	1.8	13, 18, 21, 26					
Light Gray silty fine SAND, trace m. sand	35	SS	S-18	1.9	6, 8, 8, 10					
BORING TERMINATED AT 36 FT	36									
	37									
	38									
	39									
	40									

Ref. No. 22 p. 264

LOG OF BORING NO. B-104

DATE 22 Jan 1979 SURFACE ELEV. +24 ft LOCATION See Fig 1

DEPTH, FEET	SAMPLES	SAMPLING RESISTANCE *	ELEV. (FT)	DESCRIPTION
0				Dark Brown organic silty m-f SAND
		10	23	
		19		Dark Gray fine SAND, trace silt
5		16		
		17	17	Dark Gray SILT, occ. layers f. sand
			16	Gray m-f SAND, trace silt
		13	15	
10		18		Dark Gray SILT, occasional layers of fine sand
		35	11	Tan m-f SAND, trace silt
15		18	8	BORING TERMINATED AT 16 FT
20				
25				

SAMPLER: 2-INCH O.D. SPLIT BARREL
140 LB. HAMMER, 30 INCH DROP

DEPTH TO WATER (FT) 2 DATE 1-22-79

REMARKS

* BLOWS / FOOT

Ref. No. 22 P. 2465

CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

LOG OF BORING B-104 SHEET 1 OF 1

Project and Location: Essex Chemical Plant, Sayreville, New Jersey		Elevation and Datum: + 24 Ft	Project No.: 78C552
Agency: Warren George, Inc.	Foreman: K. Reid	Date Started: 22 January 1979	Date Finished: 22 January 1979
Drilling Equipment: Truck Mounted Acker AD2 Auger Rig		Completion Depth: 16 Ft	Rock Depth: Not Encountered
Size and Type of Bit: N.A.	Size and Type Core Barrel: N.A.	No. Samples: Dist 8	Undist 0 / Core 0
CASING 2.5 in ID HSA		Water Level: First 2 Ft	Compl. 2Ft / Hrs --
CASING HAMMER	WEIGHT --	DROP --	Boring Angle and Direction: Vertical
SAMPLER 2 in OD Split Spoon			
SAMPLER HAMMER	WEIGHT 140 lbs	DROP 30 in	Inspector: R. Gaibrois

DESCRIPTION	Depth, FT	Type No. Loc.	Recov. FT	Penetr. Resist. Blows	W_n,%	LL,%	PL,%	-200,%	REMARKS
Dark Brown silty m-f SAND, occ. roots (TOPSOIL)	1	SS S-1	0.8	6 3 2 8					
Brown-Dark Gray silty m-f SAND	2								
Dark Gray fine SAND, trace silt, trace m. sand	3	SS S-2 T B	1.7	10 10 9 10					
SAME AS ABOVE	4								
	5	SS S-3	1.8	5 6 7 9					
Dark Gray fine SAND, trace silt	6								
Dark Gray SILT, layers of Dark Gray f SAND, some silt	7	SS S-4 T B	1.8	5 5 7 10	20.3%	23%	20%		
Gray m-f SAND, trace silt	8								
Dark Gray SILT, layers of Dark Gray f. SAND, some silt	9	SS S-5 T B	1.7	4 5 6 7					
Dark Gray SILT, occ layers of Dark Gray f. SAND, some silt	10								
	11	SS S-6	1.6	4 5 8 10					
SAME AS ABOVE	12								
Tan m-f SAND, trace silt	13	SS S-7 T B	1.9	8 11 15 20					
Tan m-f SAND, trace silt, trace c. sand	14								
	15	SS S-8	2.0	6 8 9 9					
BORING TERMINATED AT 16 FT	16								
	17								
	18								
	19								

Ref. No. 22 P 266

LOG OF BORING NO. B-105

DATE 23 Jan 1979 SURFACE ELEV. +26 ft LOCATION See Fig 1

DEPTH, FEET	SAMPLES	SAMPLING RESISTANCE *	ELEV. (FT)	DESCRIPTION
0				
		20		Brown-Gray organic silty fine SAND
		4		
5		30	20	
			19	Dark Gray silty CLAY
		10		Dark Gray silty SAND, occ. layers micaceous silt with pieces charred wood
		10	16	
10		20		Tan and Gray silty fine SAND
		19	12	
				BORING TERMINATED AT 14 FT
15				
20				
25				

SAMPLER: 2-INCH O.D. SPLIT BARREL
140 LB. HAMMER, 30 INCH DROP

* BLOWS / FOOT

DEPTH TO WATER (FT) 2 DATE 1-23-79

REMARKS

Ref. No. 22 P. 267

WOODWARD-CLYDE CONSULTANTS
CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

LOG OF BORING B-105

SHEET 1 OF 1

...ex Chemical Plant, Sayreville, New Jersey		+ 26 Ft	78C552
...arren George, Inc.	K. Reid	23 January 1979	23 January 1979
...actor Mounted 40C Drill Rig		14 Ft	Not Encountered
...Chopping Bit	N.A.	NO SAMPLES: DIST 7	UNDIST 0 / CORE 0
...ING 2.5 in ID BW Casing		WATER LEVEL: FIRST 1.9 Ft	COMPL 2 Ft / 24 HR --
...ING HAMMER	WEIGHT 300 lbs / DROP 30 in	Vertical	
...PLER 2.0 in OD Split Spoon			
...PLER HAMMER	WEIGHT 140 lbs / DROP 30 in	R. Gaibrois	

DESCRIPTION	DEPTH, FT	SAMPLES: TYPE NO. LOC	RECOV, FT	PENETR RESIST BLOWS	W_n,%	LL,%	PL,%	-200,%	REMARKS
Brown - Gray organic silty fine SAND	1	SS S-1	0.8	4 4 7 13					
	2								- piece of gravel lodged in sampler tip
	3	SS S-2	0.1	9 4 3 1					- some m-f sand on side of sampler
	4								
Dark Gray silty fine SAND	5	SS S-3	1.1	13 15 13 17					
	6								
SAME AS ABOVE	7	SS S-4 T B	1.7	3 3 3 7	24.4%	29%	18%		
Dark Gray silty CLAY, occasional layers (1/8 in) of Gray silt	8								
Dark Gray silty SAND, occasional layers micaceous silt with charred wood particles	9	SS S-5	1.8	4 5 5 5					
Light Gray fine SAND, trace silt	10								
Tan fine SAND, some m. sand, trace silt	11	SS S-6 T B	1.1	7 7 10 10				10.4%	
SAME AS ABOVE	12								
Alternating layers of Tan and Gray fine SAND, trace silt	13	SS S-7 T B	1.9	4 5 9 10					
BORING TERMINATED AT 14 FT	14								
	15								

Ref. No 22 p. 268

LOG OF BORING NO. B-106

DATE 23 Jan 1979 SURFACE ELEV. +25 ft LOCATION See Fig 1

DEPTH, FEET	SAMPLES	SAMPLING RESISTANCE *	ELEV. (FT)	DESCRIPTION
0				
		WH		Dark Brown organic silty fine SAND
		WH	21	
5		24	19	Gray silty fine SAND
		16	16.5	Dark Gray micaceous SILT, occ. pieces charred wood
		17	15.5	Tan silty fine SAND
10			14.5	Light Gray silty CLAY
		20		Tan and Gray m-f SAND
		16	11	
				BORING TERMINATED at 14 FT
15				
20				
25				

SAMPLER: 2-INCH O.D. SPLIT BARREL
140 LB. HAMMER, 30 INCH DROP

* BLOWS / FOOT

DEPTH TO WATER (FT) 0.5 DATE 1-23-79
0.3 1-24-79

REMARKS Observation Well Installed

Ref. No. 22 p. 269

WOODWARD-CLYDE CONSULTANTS

CONSULTING ENGINE[illegible] GEOLOGISTS AND ENVIRONMENTAL SCIEN[illegible]S

LOG OF BORING B-106 SHEET 1 OF 1

Chemical Plant, Sayreville, New Jersey		+ 25 Ft	78C552
Warren George, Inc.	K. Reid	23 January 1979	23 January 1979
Tractor Mounted 40C Drill Rig		14 Ft	Not Encountered
Chopping Bit	N.A.	NO. SAMPLES: DIST 7	UNDIST 0 / CORE 0
CASING 2.5 in ID BW Casing		WATER LEVEL: THRT 0.5 Ft	COMPL 0.5 Ft / MIN 0.3 Ft
CASING HAMMER	WEIGHT 300 lbs	DROP 30 in	Vertical
SAMPLER 2 in OD Split Spoon			
SAMPLER HAMMER	WEIGHT 140 lbs	DROP 30 in	R. Gaibrois

DESCRIPTION	DEPTH, FT	SAMPLES: TYPE NO. LOC	RECOV, FT	PENETR RESIST BLOWS	W_n,%	LL,%	PL,%	-200,%	REMARKS
Dark Brown-Black organic Silty fine SAND, numerous roots	1	SS S-1	0.5	1					
	2								
SAME AS ABOVE	3	SS S-2	1.0	WH					
SAME AS ABOVE	4								
Gray silty fine SAND Brown silty fine SAND, occ piece f. gravel Gray-Brown Silty fine SAND	5	SS S-3 B M T	1.9	4 11 9 15					
Alternating layers of Gray and Dark Gray SILT, occ pieces charred wood Dark Gray micaceous SILT, occasional pieces charred wood	6 7	SS S-4 B T	1.8	7 7 8 8					
SAME AS ABOVE Tan silty fine SAND, occ layers (1/8") silt Light Gray SILT, occ layer fine Sand, occ piece f. gravel	8 9	SS S-5 B M T	2.0	4 6 7 10					
Light Gray silty CLAY Light Gray fine SAND, trace silt Tan and Gray m-f SAND, trace silt, occ. layers (~1/4") light Gray silt	10 11	SS S-6 B T	1.9	4 7 9 11					
SAME AS ABOVE	12 13	SS S-7 B T	1.9	9 9 8 8					
BORING TERMINATED AT 14 FT	14 15								

Ref. No. 22 p. 270

LOG OF BORING NO. B-

DATE 24 Jan 1979 SURFACE ELEV. +28 ft LOCATION See Fig 1

DEPTH, FEET	SAMPLES	SAMPLING RESISTANCE *	ELEV. (FT)	DESCRIPTION
0			27	TOPSOIL
		14		Brown m-f SAND, trace silt
		3		
5		6	23	
		18		Gray fine SAND, trace silt, trace m. sand
		27		
10		24		
		24	14 15	Dark Gray silty CLAY
15		2		
		8		Dark Gray clayey SILT, occasional layers of fine sand, occasional pieces charred wood
20		10		
		13		
		23	4	
25				BORING TERMINATED AT 24 FT

SAMPLER: 2-INCH O.D. SPLIT BARREL
140 LB. HAMMER, 30 INCH DROP

DEPTH TO WATER (FT) 4 DATE 1-24-79

REMARKS

* BLOWS / FOOT

Ref. No. 22 p. 27 1

CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

LOG OF BORING B-107 SHEET 1 OF 2

Project and Location: Essex Chemical Plant, Sayreville, New Jersey		Elevation and Datum: + 28 Ft	Project No.: 78C552
Agency: Warren George, Inc.	Foreman: K. Reid	Date Started: 24 January 1979	Date Finished: 24 January 1979
Drilling Equipment: Tractor Mounted 40C Drill Rig		Completion Depth: 24 Ft	Rock Depth: Not Encountered
Size and Type of Bit: Chopping Bit	Size and Type Core Barrel: N.A.	No. Samples: Disturbed 12	Undisturbed 0 / Core 0
Casing: 2.5 in ID BW Casing		Water Level: First 5 Ft	Compl. 4 Ft / 24 Hr. --
Casing Hammer: Weight 300 lbs	Drop 30 in	Boring Angle and Direction: Vertical	
Sampler: 2 in OD Split Spoon		Inspector: R. Gaibrois	
Sampler Hammer: Weight 140 lbs	Drop 30 in		

DESCRIPTION	DEPTH, FT	Type	No. Loc.	Recov. Ft	Penetr. Resist. Blows	W_n,%	LL,%	PL,%	-200,%	REMARKS
Dark Brown Silty Clayey m-f SAND, containing numerous roots (TOPSOIL)	1	SS	S-1 T	1.6	11 11 7 7					
Brown m-f SAND, trace silt, occ piece f. gravel	2		B							
SAME AS ABOVE	3	SS	S-2	1.0	3 3 2 1					
SAME AS ABOVE	4	SS	S-3 T	1.0	2 2 2 4					
Dark Gray-Black fine SAND, trace silt, trace m. sand	5		B							
Gray-Black and Brown fine SAND, trace silt, trace m. sand	6	SS	S-4 T	1.8	7 7 9 11					
Gray fine SAND, trace silt, occ. roots, trace m. silt	7		B							
Gray fine SAND, trace silt, trace m. sand	8	SS	S-5	2.0	8 10 12 15					
SAME AS ABOVE	10	SS	S-6	2.0	10 12 14 10					
SAME AS ABOVE	12	SS	S-7	1.9	7 10 12 12					
SAME AS ABOVE	14	SS	S-8	1.7	5 3 1 1					
SAME AS ABOVE	16	SS	S-9 T	1.5	2 2 3 5	32.4%	37%	29%		
Dark Gray Clayey SILT	17		B							
Gray Clayey SILT, occ thin layers of fine sand and occ pieces burnt wood	18	SS	S-10	1.9	2 2 3 7					
	19									

Ref. No. 22 p. 272

WOODWARD-CLYDE CONSULTANTS

CONSULTING ENGI S, GEOLOGISTS AND ENVIRONMENTAL SCIE TS

LOG OF BORING B-107

SHEET 2 OF 2

DESCRIPTION	DEPTH, FT				W_n,%	LL,%	PL,%	-200,%	REMARKS
Light Gray silty fine SAND, occ. layers (~1/4") Light Gray silt	21	SS 3-11 T	1.8	4 6 6 7					
Gray clayey SILT, occ. layers (~1/2") Light Gray fine sand		B							
SAME AS ABOVE	22	SS 6-12 T	1.9	7 7 11 12					
Dark Gray SILT Alternating with Layers of fine SAND	23	B							
BORING TERMINATED AT 24 FT	24								
	25								

Ref. No. 22 p. 273

LOG OF BORING NO. B-10L

DATE 24 Jan 1979 SURFACE ELEV. +28 ft LOCATION See Fig 1

DEPTH, FEET	SAMPLES	*SAMPLING RESISTANCE	ELEV. (FT)	DESCRIPTION
0		4		Dark Brown organic silty fine SAND
		26		
5		19	23	
		8		Tan and Gray m-f SAND
		15		
10		26		
		28		
15		23		
		19		
20		19		
		18		
		23	6	Light Gray clayey SILT
25		14	5	Tan and Red-Brown m-f SAND
		24		
			2	Tan-Gray silty CLAY
		40	1	Dark Gray micaceous SILT, occ. pieces charred wood
30			0	
		16		Dark Gray micaceous silty fine SAND
		16	-4	
			-5	Dark Gray micaceous SILT, occ. pieces charred wood
35		18	-6	Light Gray m-f SAND
				BORING TERMINATED AT 36 FT

SAMPLER: 2-INCH O.D. SPLIT BARREL
140 LB. HAMMER, 30 INCH DROP

DEPTH TO WATER (FT) 0.5 DATE 1-24-79
Surf. 1-25-79
REMARKS

* BLOWS/FOOT

Ref. No. 22 p. 1274

CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

LOG OF BORING B-108 SHEET 1 OF 2

Essex Chemical Plant, Sayreville, New Jersey		+ 28 Ft	78C552
Warren George, Inc.	K. Reid	24 January 1979	25 January 1979
Tractor Mounted 40C Drill Rig		36 Ft	Not Encountered
Chopping Bit	N.A.	18	0 / 0
CASING 2.5 in ID BW Casing		0.5 Ft	Surf. / Surf.
CASING HAMMER WEIGHT 300 lbs	DROP 30 in	Vertical	
SAMPLER 2 in OD Split Spoon			
SAMPLER HAMMER WEIGHT 140 lbs	DROP 30 in	R. Gaibrois	

DESCRIPTION	DEPTH, FT	SAMPLE			W_n,%	LL,%	PL,%	-200,%	REMARKS
Dark Brown-Black silty fine SAND, trace m. sand (FILL)	1	SS S-1	0.9	2 1 1 3					
SAME AS ABOVE	2	SS S-2	1.3	4 4 14 12					
Dark Brown organic silty fine SAND, numerous roots	3								
SAME AS ABOVE	4	SS S-3	1.9	8 10 9 10					
Gray and Tan fine SAND, trace silt	5								
Gray fine SAND, trace m. sand	6	SS S-4	1.8	5 8 4 4					
Alternating layers of Light Gray and Tan Silty fine SAND	7								
SAME AS ABOVE	8	SS S-5	0.9	5 7 8 7					
Alternating layers of Light Gray and Tan fine SAND, trace silt, trace m. sand	9								
Alternating layers of Light Gray and Tan m-f SAND, trace silt, trace m. sand	10	SS S-6	1.8	4 8 10 13					
Alternating layers of Tan and Reddish Brown m-f SAND, trace silt, trace m. sand	11								
Reddish Brown m-f SAND, trace silt	12	SS S-7	1.8	10 12 13 15					
Tan m-f SAND, trace silt	13								
SAME AS ABOVE	14	SS S-8	2.0	8 10 11 12					
	15								
	16	SS S-9	2.0	8 8 9 10					
	17								
	18	SS S-10	0.9	7 7 9 10					
	19								

Ref. No. 22 p. 275

WOODWARD-CLYDE CONSULTANTS

CONSULTING ENGIN[illegible]S, GEOLOGISTS AND ENVIRONMENTAL SCIE[illegible]TS

LOG OF BORING B-108 SHEET 2 OF 2

DESCRIPTION	DEPTH, FT					W_n,%	LL,%	PL,%	-200,%	REMARKS
Tan m-f SAND, trace silt										
Tan m-f SAND, trace silt, occasional layers (~½") Light Gray clayey silt	21	SS S-11	T B	1.0	3 6 9 9					
Tan m-f SAND, trace silt	22									
Light Gray clayey SILT, frequent layers (~⅛-½") of Tan fine Sand	23	SS S-12	T B	2.0	9 10 10 13					
SAME AS ABOVE	24									
Tan and Reddish Brown m-f SAND, occasional layers (~¼") Gray silty clay	25	SS S-13	T B	1.8	4 7 7 7					
SAME AS ABOVE	26									
	27	SS S-14		1.4	6 7 11 13					
Tan-Gray silty CLAY	28									
Dark Gray micaceous clayey SILT occasional pieces charred wood	29	SS S-15	T B	1.8	8 10 16 24	22.1%	38%	23%		
	30									
Dark Gray micaceous silty fine SAND, occ layers Dark Gray micaceous silt, pieces charred wood	31	SS S-16		1.2	8 8 8 8					
	32									
SAME AS ABOVE	33	SS S-17		1.5	3 6 7 9					
	34									
Dark Gray micaceous SILT, trace to some clay, pieces charred wood; occ layer f. sand	35	SS S-18	T B	1.7	6 8 8 10					
Light Gray m-f SAND, trace silt										
BORING TERMINATED AT 36 FT	36									
	37									
	38									
	39									
	40									

Ref. No. 22 p. 276

LOG OF BORING NO. B-10

DATE 25 Jan 1979 SURFACE ELEV. +28 ft LOCATION See Fig 1

DEPTH, FEET	SAMPLES	* SAMPLING RESISTANCE	ELEV. (FT)	DESCRIPTION
0				
		4	26.5	Dark Brown organic fine sandy SILT
		9		
5		14		
		10		Tan m-f SAND
10		16		
		12		
		19		
15		12		
		14		
		13	8.9	Light Gray clayey SILT
20		16		Tan m-f SAND
		15	4.5 5.5	Dark Gray micaceous clayey SILT, occ. pieces charred wood
25		25		Gray and Tan m-f SAND
		19	0	
				BORING TERMINATED AT 28 ft
30				
35				

SAMPLER: 2-INCH O.D. SPLIT BARREL
140 LB. HAMMER, 30 INCH DROP

* BLOWS / FOOT

DEPTH TO WATER Surf. DATE 1-25-79
(FT)
REMARKS

Ref. No. 22 p. 277

WOODWARD-CLYDE CONSULTANTS

CONSULTING ENGI[illegible]S, GEOLOGISTS AND ENVIRONMENTAL SCIE[illegible]TS

LOG OF BORING B-108

SHEET 2 OF 2

DESCRIPTION	DEPTH, FT	SAMPLES: TYPE	SAMPLES: NO.	SAMPLES: BLOWS	W_n,%	LL,%	PL,%	-200,%	REMARKS
Tan m-f SAND, trace silt									
Tan m-f SAND, trace silt, occasional layers (~1/2") Light Gray clayey silt	21	SS B S-11 T	1.0	3 6 9 9					
Tan m-f SAND, trace silt	22								
Light Gray clayey SILT, frequent layers (~1/8-1/2") of Tan fine Sand	23	SS B S-12 T	2.0	9 10 10 13					
SAME AS ABOVE	24								
Tan and Reddish Brown m-f SAND, occasional layers (~1/4") Gray silty clay	25	SS B S-13 T	1.8	4 7 7 7					
SAME AS ABOVE	26								
	27	SS S-14	1.4	6 7 11 13					
Tan-Gray silty CLAY	28								
Dark Gray micaceous clayey SILT occasional pieces charred wood	29	SS B S-15 T	1.8	8 10 16 24	22.1%	38%	23%		
Dark Gray micaceous silty fine SAND, occ layers Dark Gray micaceous silt, pieces charred wood	30								
	31	SS S-16	1.2	8 8 8 8					
SAME AS ABOVE	32								
	33	SS B S-17	1.5	3 6 7 9					
Dark Gray micaceous SILT, trace to some clay, pieces charred wood, occ layer f. sand	34								
Light Gray m-f SAND, trace silt	35	SS B S-18 T	1.7	6 8 8 10					
BORING TERMINATED AT 36 FT	36								
	37								
	38								
	39								
	40								

Ref. No. 22 p. 278

LOG OF BORING NO. B-10a

DATE 25 Jan 1979 SURFACE ELEV. +28 ft LOCATION See Fig 1

DEPTH, FEET	SAMPLES	*SAMPLING RESISTANCE	ELEV. (FT)	DESCRIPTION
0				
		4	26.5	Dark Brown organic fine sandy SILT
		9		
5		14		
		10		Tan m-f SAND
10		16		
		12		
		19		
15		12		
		14		
		13	8.9	Light Gray clayey SILT
20		16		Tan m-f SAND
		15	4.5 5.5	Dark Gray micaceous clayey SILT, occ. pieces charred wood
25		25		Gray and Tan m-f SAND
		19	0	
				BORING TERMINATED AT 28 ft
30				
35				

SAMPLER: 2-INCH O.D. SPLIT BARREL
140 LB. HAMMER, 30 INCH DROP

* BLOWS/FOOT

DEPTH TO WATER Surf. DATE 1-25-79
(FT)
REMARKS

Ref. No. 22 p. 279

WOODWARD-CLYDE CONSULTANTS

CONSULTING ENGI[illegible]S, GEOLOGISTS AND ENVIRONMENTAL SCIE[illegible]STS

LOG OF BORING B-109 SHEET 1 OF 2

[illegible] ex Chemical Plant, Sayreville, New Jersey		+ 28 Ft	78C552
Warren George, Inc.	K. Reid	25 January 1979	25 January 1979
Tractor Mounted 40C Drill Rig		24 Ft	Not Encountered
Chopping Bit	N.A.	12	0 0
CASING 2.5 in ID BW Casing		Surf.	Surf. Surf.
CASING HAMMER	WEIGHT 300 lbs	DROP 30 in	Vertical
SAMPLER 2 in OD Split Spoon			
SAMPLER HAMMER	WEIGHT 140 lbs	DROP 30 in	R. Gaibrois

DESCRIPTION	DEPTH, FT	SAMPLE TYPE	SAMPLE NO.	RECOV. FT	PENETR. RESIST. BLOWS	W_n,%	LL,%	PL,%	-200,%	REMARKS
Dark Brown organic fine sand, silt, numerous roots	1	SS	S-1 T B	1.1	1 1 3					- water ponded to surface
Tan fine SAND, trace silt, trace m. sand	2									
SAME AS ABOVE	3	SS	S-2	1.3	6 4 5 4					
Tan fine SAND, trace silt, trace m. sand, occ layers (1/8-1/4") Light Gray silt	4 5	SS	S-3	1.9	5 6 8 6					
Tan fine SAND, trace to some m. sand, trace silt	6 7	SS	S-4	1.7	4 4 5 5					
Tan m-f SAND, trace silt, occasional layers (1/4-1/2") Light Gray silt	8 9	SS	S-5	2.0	5 7 8 8				18.2%	
Tan m-f SAND	10 11	SS	S-6 T B	1.8	4 5 5 7					
Light Gray silty CLAY, layers of Tan fine sand	12									
Tan m-f SAND, trace silt, trace c. sand	13	SS	S-7	1.7	7 9 9 10					
SAME AS ABOVE	14 15	SS	S-8	2.0	4 6 6 6					
SAME AS ABOVE	16 17	SS	S-9	2.0	7 6 6 8					
SAME AS ABOVE	18									
Light Gray clayey SILT, occasional layers (1/8-3/8") tan m-f sand	19	SS	S-10 T B	1.8	5 5 6 7					

Ref. No. 220.280

WOODWARD-CLYDE CONSULTANTS

CONSULTING ENG[illegible]RS, GEOLOGISTS AND ENVIRONMENTAL SCI[illegible]STS

LOG OF BORING B-109 SHEET 2 OF 2

DESCRIPTION	DEPTH, FT	SAMPLES: TYPE NO. LOC	SAMPLES: RECOV. FT	SAMPLES: PENETR. RESIST. BLOWS	W_n,%	LL,%	PL,%	-200,%	REMARKS
Tan m-f SAND, trace silt, occasional layers (1/4"-1/2") Light Gray Silt	21	SS S-11	1.9	4 5 7 9					
SAME AS ABOVE	22	SS B S-12 T	1.7	7 8 8 7					
Dark Gray micaceous clayey SILT, occ piece charred wood	23								
Dark Gray micaceous silty fine SAND, occ piece charred wood	24	SS B S-13 T	1.5	6 6 11 14					
Light Gray silty fine SAND	25								
Tan silty m-f SAND, trace c. sand	26	SS S-14	2.0	7 9 9 10					
BORING COMPLETED AT 28 FT	27								
	28								
	29								
	30								

Ref. No. 22 p. 281

LOG OF BORING NO. B-

DATE 26 Jan 1979 SURFACE ELEV. +27 ft LOCATION See Fig 1

DEPTH, FEET	SAMPLES	* SAMPLING RESISTANCE	ELEV. (FT)	DESCRIPTION
0				
		6	26	Dark Brown organic fine sandy SILT, numerous roots
		15		Tan and Gray fine SAND
5		10		
		22		
		19		
10		17		
		15		
15		11		
		6		
		7		
20		7	6	
		5		Tan and Red-Brown c-f SAND
25		7		
		8		
		15	-2	Dark Gray micaceous clayey SILT
30		5	-4	Light Gray silty CLAY
		17		
35		14	-8	Dark Gray fine SAND
			-9	BORING TERMINATED AT 36 FT

SAMPLER: 2-INCH O.D. SPLIT BARREL
140 LB. HAMMER, 30 INCH DROP

DEPTH TO WATER (FT) Surf. DATE 1-26-79

REMARKS

* BLOWS/FOOT

Ref. No. 22 p. 282

CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

LOG OF BORING B-110

SHEET 1 OF 2

Project and Location: Essex Chemical Plant, Sayreville, New Jersey		Elevation and Datum: + 27 Ft	Project No.: 78C552
Drilling Company: Warren George, Inc.	Foreman: K. Reid	Date Started: 26 January 1979	Date Finished: 26 January 1979
Drilling Equipment: Tractor Mounted 40C Drill Rig		Completion Depth: 36 Ft	Rock Depth: Not Encountered
Size and Type of Bit: Chopping Bit	Size and Type Core Barrel: N.A.	No. Samples: Dist 18	Undist 0 / Core 0
Casing: 2.5 in ID BW Casing		Water Level: First Surf.	Compl. Surf. / 24 hr Surf.
Casing Hammer: Weight 300 lbs	Drop 30 in	Boring Angle and Direction: Vertical	
Sampler: 2 in OD Split Spoon		Inspector: R. Gaibrois	
Sampler Hammer: Weight 140 lbs	Drop 30 in		

DESCRIPTION	DEPTH, FT	Type No. Size	Recovery, ft	Penetr. Resist. Blows	W_n,%	LL,%	PL,%	-200,%	REMARKS
Dark Brown-Black organic fine sandy SILT, containing numerous roots	1	SS S-1 T B	1.1	1 1 2 4					
Brown-Gray fine SAND, some silt	2								
Gray fine SAND, trace c-m sand, trace silt	3	SS S-2	1.4	5 5 7 8					
Gray fine SAND, trace silt	4								
Tan silty fine SAND, several layers (~1/8") Light Gray clayey silt	5	SS S-3 T B	1.5	3 4 5 5					
SAME AS ABOVE	6								
	7	SS S-4	1.7	5 8 10 11					
SAME AS ABOVE	8								
	9	SS S-5	2.0	7 10 9 10					
Tan silty fine SAND, trace c-m sand, several (~1/8") layers Light Gray clayey silt	10								
	11	SS S-6	2.0	7 8 8 9					
Tan c-f SAND, some silt, several layers (~1/8") Light Gray clayey silt	12								
	13	SS S-7	2.0	6 7 7 8					
SAME AS ABOVE	14								
	15	SS S-8	1.8	8 7 6 5					
Tan c-f SAND, trace silt, several layers (~1/8") Light Gray clayey silt	16								
	17	SS S-9	1.9	4 3 3 3					
Tan c-m SAND, trace to some f. sand, several layers (~1/8") Light Gray clayey silt	18								
	19	SS S-10	0.6	2 2 3 4					

Ref. No. 22 P. 283

WOODWARD-CLYDE CONSULTANTS
CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

LOG OF BORING B-110 SHEET 2 OF 2

DESCRIPTION	DEPTH, FT	SAMPLE				W_n,%	LL,%	PL,%	-200,%	REMARKS
Tan c-f SAND, trace silt										
Tan and Red-Brown c-f SAND, trace silt, several layers (1/8-1/4") Light Gray clayey silt	21	SS S-11 T B	1.1	2 3 3 5		29.4%	44%	29%	4.7%	
Red-Brown c-f SAND, trace silt	22									
	23	SS S-12	1.8	2 2 2 3						
Pinkish Tan c-f SAND, trace f. gravel, occ layer (1/8"-1/4") Light Gray clayey silt	24									
	25	SS S-13	2.0	3 2 3 4						
SAME AS ABOVE	26									
	27	SS S-14	2.0	3 4 3 5						
Pinkish Tan c-m SAND, trace f. gravel	28									
Alternating layers (~1/4") Tan fine SAND and Light Gray SILT	29	SS S-15 T M	1.9	5 5 7 8						
Dark Gray micaceous clayey SILT, occ thin layers f. sand	30	SS B								
SAME AS ABOVE	31	SS S-16 T B	1.3	2 1 2 3						
Gray silty CLAY, occ layers (1/4") tan silty f. sand	32									
SAME AS ABOVE	33	SS S-17	1.9	4 5 7 10						
SAME AS ABOVE	34									
Dark Gray fine SAND, trace to some silt	35	SS S-18 T B	1.8	4 5 7 7						
BORING COMPLETED AT 36 FT	36									
	37									
	38									
	39									
	40									

Ref. No. 22 p. 284

LOG OF BORING NO. B-111

DATE 23 March 1979 SURFACE ELEV. +24.7 ft. LOCATION See Fig 1

DEPTH, FEET	SAMPLES	SAMPLING RESISTANCE*	ELEV. (FT)	DESCRIPTION
0				Dark brown organic silty fine SAND
			22.2	Tan-light brown m-f SAND, some silt
5		21		
			15.7	Dark gray slightly micaceous silty CLAY
10		20		
15		20	8.7	Tan and light gray fine SAND
20			5.2	BORING TERMINATED AT 19 FT 6 IN
25				

SAMPLER: 2-INCH O.D. SPLIT BARREL
140 LB. HAMMER, 30 INCH DROP

DEPTH TO WATER (FT) _____ DATE _____

REMARKS _____

* BLOWS / FOOT

Ref No. 22 0.285

WOODWARD-CLYDE CONSULTANTS

CONSULTING ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SCIENTISTS

LOG OF BORING B-111 SHEET 1 OF 1

PROJECT AND LOCATION: Essex Chemical Plant, Sayreville, New Jersey		ELEVATION AND DATUM: +24.7 Ft	PROJECT NO: 78C552A
DRILLING AGENCY: Warren George, Inc.	FOREMAN: J. Harris	DATE STARTED: 23 March 1979	DATE FINISHED: 23 March 1979
DRILLING EQUIPMENT: Tractor Mounted 40C Drill Rig		COMPLETION DEPTH: 17 Ft	ROCK DEPTH: Not Encountered
SIZE AND TYPE OF BIT: Chopping Bit	SIZE AND TYPE CORE BARREL: None Used	NO. SAMPLES: DIST 3	UNDIST 0 / CORE 0
CASING 4 in ID Flush Joint		WATER LEVEL: FIRST --	COMPL -- / 24 HR --
CASING HAMMER	WEIGHT 300 lbs	DROP 30 in	BORING ANGLE AND DIRECTION: Vertical
SAMPLER 2.0 in OD Split Split Spoon			
SAMPLER HAMMER	WEIGHT 140 lbs	DROP 30 in	INSPECTOR: R. Gaibrais

DESCRIPTION	DEPTH, FT	SAMPLES: TYPE NO. LOC	RECOV. FT	PENETR. RESIST. BLOWS	W_n,%	LL,%	PL,%	-200,%	REMARKS
Dark Brown organic silty fine SAND, numerous fine roots	1								
	2								
	3								
	4								
Tan - Light Brown medium to fine SAND, trace coarse sand, some silt	5–7	SS S-1	0.3	4 4 8 13					
	8								
	9								- wash water becomes dark at 9 Ft penetration
Dark Gray slightly micaceous silty CLAY	10–12	SS S-2	0.7	4 12 11 9					
	13								
	14								
Dark Gray slightly micaceous silty CLAY	15								
Tan and Light Gray fine SAND, trace medium sand	16–17	SS S-3	1.4	3 7 11 9					
Alternating Layers (1/4" to 3/4") of Tan and Light Gray fine SAND, trace medium sand	18–19	SS S-4	1.6						
BORING TERMINATED AT 19 FT 6 IN									

Ref. No. 22 P. 286