

151SERBSF10,610

151SERBSF10,610

Site Name (Subject): OWENS ILL/SALISBURY BOX PLT

Site ID (Document ID): NCD980557755

Document Name (DocType): Correspondence (C)

Report Segment:

Description: General Correspondence, 1981 - 1995

Date of Document: 8/22/1995

Date Received:

Box: *Enter SF and # with no spaces* SF10,610

Access Level: PUBLIC

Division: WASTE MANAGEMENT

Section: SUPERFUND

Program (Document Group): SERB (SERB)

Document Category: FACILITY

**Print Report for
Record**

**Go to New
Blank Record**

**Go to New Record -
(default to last
record values)**

Delete Record

OWENS ILL./SALISBURY BOX PLT.

NCD 980 557 755

Folders

1. General Correspondence file, 1981—1995

Bound Reports

1. Photographs
2. Site Investigation Report: November 1988
3. Soil Assessment and Remediation: Ink Disposal Trenches:
December 1992
4. FIT Report—Site Inspection Prioritization: June 1993



U.S. Environmental Protection Agency Superfund Information Systems

[Recent Additions](#) | [Contact Us](#) | [Print Version](#) Search:

[EPA Home](#) > [Superfund](#) > [Sites](#) > [Superfund Information Systems](#) > [Search Superfund Site Information](#) > [Search Results](#) > OWENS-ILL/SAILSBURY BOX PLT

[Superfund Site Information](#)
[Site Documents](#)
[Data Element Dictionary \(DED\)](#)
[Order Superfund Products](#)

Superfund Site Information

OWENS-ILL/SAILSBURY BOX PLT

Site Information

[Site Info](#) | [Aliases](#) | [Operable Units](#) | [Contacts](#)
[Actions](#) | [Contaminants](#) | [Site-Specific Documents](#)

This site has been archived from the inventory of active sites.

Site Name: OWENS-ILL/SAILSBURY BOX PLT

Street: OLD US 29 N

City / State / ZIP: SPENCER, NC 28144

NPL Status: Not on the NPL

Non-NPL Status: NFRAP

EPA ID: NCD980557755

EPA Region: 04

County: ROWAN

Federal Facility Flag: Not a Federal Facility

[Return to Search Results](#)

[Return to Search Superfund Site Information](#)

DISCLAIMER: Be advised that the data contained in these profiles are intended solely for informational purposes use by employees of the U.S. Environmental Protection Agency for management of the Superfund program. They are not intended for use in calculating Cost Recovery Statutes of Limitations and cannot be relied upon to create any rights, substantive or procedural, enforceable by any party in litigation with the United States. EPA reserves the right to change these data at any time without public notice.

[OSWER Home](#) | [Superfund Home](#)

[EPA Home](#) | [Privacy and Security Notice](#) | [Contact Us](#)

URL: <http://cfpub.epa.gov/supercpad/cursites/csitinfo.cfm>
This page design was last updated on Monday, June 18, 2007
Content is dynamically generated by ColdFusion



U.S. Environmental Protection Agency
Superfund Information Systems

[Recent Additions](#) | [Contact Us](#) | [Print Version](#) Search:

[EPA Home](#) > [Superfund](#) > [Sites](#) > [Superfund Information Systems](#) > [Search Superfund Site Information](#) > [Search Results](#) > OWENS-ILL/SAILSBURY BOX PLT

- Superfund Site Information
- Site Documents
- Data Element Dictionary (DED)
- Order Superfund Products

Superfund Site Information

OWENS-ILL/SAILSBURY BOX PLT

Actions

[Site Info](#) | [Aliases](#) | [Operable Units](#) | [Contacts](#)
[Actions](#) | [Contaminants](#) | [Site-Specific Documents](#)

<u>OU</u>	<u>Action Name</u>	<u>Qualifier</u>	<u>Lead</u>	<u>Actual Start</u>	<u>Actual Completion</u>
00	DISCOVERY		F		06/01/1981
00	PRELIMINARY ASSESSMENT	L	F		09/01/1982
00	SITE INSPECTION	N	S		12/10/1991
00	ARCHIVE SITE		EP		08/10/1993

[Return to Search Results](#)

[Return to Search Superfund Site Information](#)

DISCLAIMER: Be advised that the data contained in these profiles are intended solely for informational purposes use by employees of the U.S. Environmental Protection Agency for management of the Superfund program. They are not intended for use in calculating Cost Recovery Statutes of Limitations and cannot be relied upon to create any rights, substantive or procedural, enforceable by any party in litigation with the United States. EPA reserves the right to change these data at any time without public notice.

[OSWER Home](#) | [Superfund Home](#)

[EPA Home](#) | [Privacy and Security Notice](#) | [Contact Us](#)

URL: <http://cfpub.epa.gov/supercpad/cursites/cactinfo.cfm>
 This page design was last updated on Monday, June 18, 2007
 Content is dynamically generated by ColdFusion

DATE: August 22, 1995

SUBJECT: REMOVAL FROM EPA'S CERCLIS INVENTORY

FROM: Matthew J. Robbins, Brownfields Coordinator
Waste Management Division, Region IV



TO: OWENS-ILL/SAILSBURY BOX PLT
OLD US 29 N
SPENCER
NC 28144

EPA has identified the Brownfields Initiative as one of the Agency's top priorities. The term "brownfields" refers to previously used properties that may lie vacant because potential contamination makes them unmarketable to the private sector. EPA has recently announced a comprehensive Brownfields strategy, including Pilot grants to municipalities, to stimulate economic revitalization.

One part of the strategy has been for EPA to review its complete inventory of Superfund sites. These sites have been screened and determined to require no remedial action under the Federal Superfund Program based on information available as well as on conditions and policies that currently exist. This is to notify you that EPA has removed your facility from EPA's computer inventory known as CERCLIS. THIS DOES NOT INDICATE THAT THE STATE HAS MADE A SIMILAR DETERMINATION.

If you have any questions, please call me at 404/347-5059 ext. 6214.

cc: State Agency

DATE: November 17, 1988
FROM: Bruce Nicholson
TO: Owens-Illinois File
SUBJECT: Telecon with Ms. Hilda Palmer,
Spencer Town Manager, (704) 633-2231

Ms. Palmer states that Spencer purchases all of their water from the City of Salisbury. They no longer use any wells. The most recent population estimate is 3,000 as as 1987.

BN/ds/ibm.14

DATE: November 17, 1988
FROM: Bruce Nicholson
TO: Owens-Illinois File
SUBJECT: Telcon with Barbara Mallet,
East Spencer Town Clerk, (704) 637-2284

Ms. Mallett stated that East Spencer obtains all of its water from the City of Salisbury. Salisbury's supply is from the Yadkin River. The current population estimate for East Spencer is 2,275.

BN/ds/ibm.15

November 17, 1988

From: Bruce Nicholson
To: Owens-Illinois File

Subj: Population and Ground Water Target Distribution
Estimates

I. Introduction

For purposes of estimation the population surrounding the site can be thought of in 2 groups: those who live within cities/towns and those who live outside of them. There are 3 cities/towns in the area, Spencer, East Spencer, and Salisbury. Spencer and East Spencer obtain their water from Salisbury (1,2). Salisbury's supply is from the Yadkin River upstream of the site (3). Therefore, the residents of these cities/towns are not ground water targets.

However, the other population group that lives outside of these cities/towns obtain water via private wells. This group is what makes up the ground water target population.

II. Population Distribution of Cities/Towns

The following data was obtained concerning the population of towns near the Owens-Illinois site:

Town	Census Estimates (1)		1987 Estimate
	1970	1980	
Spencer	3,075	2,938	3,000 (2)
East Spencer	2,217	2,150	2,275 (3)
Salisbury	22,515	22,677	

The distribution of the above populations around the radius of the site was calculated by estimating the portion of each city/town that lied within one mile increments to a distance of four miles. The percentage of Spencer and East Spencer within each radius was measured with a grid system while the percentage of Salisbury was estimated.

Radius, miles	Spencer		E. Spencer		Salisbury	
	% of pop- ulation	pop- ulation	% of pop- ulation	pop- ulation	% of pop- ulation	pop- ulation
0 to 1	25	750	—	—	—	—
1 to 2	50	1,500	43	978	—	—
2 to 3	25	750	57	1,297	3	680
3 to 4	—	—	—	—	25	6,803
	100	3,000	100	2,275	100	7,483

III. Population Outside the Cites/Towns (Ground Water Targets)

To estimate the population outside of the above cites/towns, houses were counted on the USGS topographic quadrangles (4). From the population figures for the cities it is apparent that there is little population growth in the area. So although the topographic maps are from 1962, no growth factor adjustment was made to the house count. The house count results are summarized below. Because these houses are assumed to be on private wells this represents the distribution of groundwater targets.

<u>Radius, miles</u>	<u>No. of Houses</u>	<u>Population (3.8 x Houses)</u>	<u>Cumulative Population</u>
0 to 1	185	703	703
1 to 2	261	992	1,695
2 to 3	390	1,482	3,177
3 to 4	638	2,424	5,601

IV. Total Population Distribution Estimate

Combining the city and non-city population estimates provides an estimate of the total population within a 4-mile radius of the Owens-Illinois site.

<u>Radius, miles</u>	<u>Population Within Cities</u>	<u>Population Outside of Cities¹</u>	<u>Total Population Distribution</u>
0 to 1	750	703	1,453
1 to 2	2,478	992	3,470
2 to 3	<u>2,727</u>	<u>1,482</u>	<u>4,209</u>
Total w/in 3 mi.	5,955	3,177	9,132
3 to 4	<u>6,803</u>	<u>2,424</u>	<u>9,227</u>
Total w/in 4 mi.	12,758	5,601	18,359

1 The population outside of cities is the ground water target population.

REFERENCES

1. Telecon. Bruce Nicholson, NC Superfund Branch, with Ms. Hilda Palmer, Spencer Town Manager. November 16, 1988.
2. Telecon. Bruce Nicholson, NC Superfund Branch, with Ms. Barbara Mallet, East Spencer Town Clerk, November 16, 1988.
3. Telecon. Bruce Nicholson, NC Superfund Branch, with Mr. Fred Bowers, Head of Water and Sewer Maintenance, City of Salisbury, August 26, 1988.
4. United States Geological Survey Topographic Maps, 7.5 Minute Series. Salisbury, 1962; Southmont, 1962; Churchland, 1950; Lexington West, 1950.

10 March 1987

TO: File

FROM: Cheryl A. McMorris

RE: Telephone conversation with Donald Walser, Manager,
Town of Spencer Water Supply (704) 633-2231.

I spoke with Mr. Walser concerning drinking water within a three mile radius of the Owens-Illinois site. He informed me that Spencer and East Spencer located within the 3-mile radius buy their drinking water from the Town of Salisbury. They then resell the water to their residents. Distribution lines are only inside of the city's limits. The lines extend as far north as the Owens-Illinois site, which is where they stop. Residents outside Spencer and East Spencer, within a three mile radius of the site, obtain drinking water from private wells.

CAM/ds/ibm.4

11 March 1987

TO: File

FROM: Cheryl A. McMorris CAM

RE: Telephone conversation with Ronnie Eidson of Duke Power Plant.

I spoke with Mr. Eidson concerning the intake point Duke Power has on the Yadkin River. He informed me that water from the intake is used for plant processes and drinking water. The water that is treated for drinking water serves 106 people, all Duke Power employees. Mr. Eidson helped me to locate the intake point which is 1 mile downstream of the I-85 bridge that crosses the Yadkin River.

CAM/tb/0193b

DATE: November 17, 1988

FROM: Bruce Nicholson

TO: Owens-Illinois File

SUBJECT: Summary of Personal Conversation with Grover
Nicholson, NC Superfund Branch, Concerning
Owens-Illinois site visit

The following information was provided by Mr. Grover Nicholson concerning the site visit made by Cheryl McMorris and him to Owens-Illinois, Spencer, NC.

Figure 1 (attached) shows the sampling locations. Samples #3 and #4 taken where Owens-Illinois personnel thought the trench was. There was nothing unusual in these samples. A second subsurface sample (Sample #5) was taken 3 feet from Sample #4 and consisted of a purple, slurry-like substance. Sample #6 was taken at the bottom of a gulley trough that drained the disposal area down the slope to the drainage ditch.

BN/ds/ibm.17

SOLID AND HAZARDOUS WASTE MANAGEMENT BRANCH

Receipt for Samples

The samples described below were collected in connection with the administration, enforcement, and documentation of the:

- () North Carolina Hazardous Waste Management Rules, 10 NCAC 10F
- () North Carolina Solid Waste Management Rules, 10 NCAC 10G
- (X) Comprehensive Environmental Response, Compensation and Liability Act (CERCLA)
- () Toxic Substances Control Act (TSCA). 15 U.S.C. §2601, et seq., specifically Section 11 of TSCA, 15 U.S.C. § 2610.

Cheryl A. McMorris
Inspector's Name

Solid Waste Mgmt. Section
P.O. Box 2091, Raleigh, N.C.
Inspector's Address

Owens-Illinois
Name of Firm

Old U.S. 21 North Spencer, N.C.
Firm Address

Mr. Jerry Klutz
Firm Owner, Operator, or Agent

Production Manager
Title

SAMPLE NUMBER	COLLECTED		SAMPLE TYPE			DUPLICATE SAMPLES			SAMPLE LOCATION	
	DATE	TIME	WATER	SOIL	OTHER	OFFERED	ACCEPTED	REJECTED	ON-SITE	OFF-SITE
(1)	2/17/88	11:15		X		X		X	X	
2	2/17/88	11:21		X		X		X	✓	
3	2/17/88	11:30		X		X		X	X	
4	2/17/88	11:35		X		X		X	X	
5	2/17/88	12:25		X		X		X	X	
6	2/17/88	1:09			X	X		X	X	

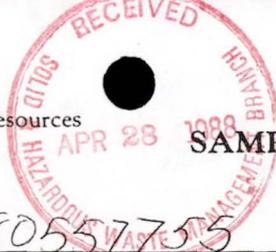
Receipt for the sample(s) described above is hereby acknowledged:
[Signature]
Signature of Inspector

Chemist
Title

Receipt/rejection of duplicate or split samples is hereby acknowledged:
[Signature]
Signature of Firm Owner, Operator, or Agent

Production Manager
Title

COMMENTS _____



SAMPLE ANALYSES REQUEST

Site Number 800980557755 Field Sample Number 003645

Name of Site Duens - Illinois Site Location Spencer N.C.

Collected By Cheryl McMorris ID# 47 Date Collected 2-12-88 Time 11:15

Type of Sample:

- | | |
|--|--------------------------------------|
| <input type="checkbox"/> Environmental | <input type="checkbox"/> Concentrate |
| <input type="checkbox"/> Groundwater (1) | <input type="checkbox"/> Solid (5) |
| <input type="checkbox"/> Surface Water (2) | <input type="checkbox"/> Liquid (6) |
| <input checked="" type="checkbox"/> Soil (3) | <input type="checkbox"/> Sludge (7) |
| <input type="checkbox"/> Other (4) | <input type="checkbox"/> Other (8) |

Comments
Sample # 5017 - Background surface soil sample



INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/l	Parameter	Results mg/kg	Parameter	Results mg/kg
<input checked="" type="checkbox"/> Arsenic	<u><0.01</u>	<input checked="" type="checkbox"/> Arsenic	<u>2.4</u>	<input checked="" type="checkbox"/> Silver	<u><10</u>
<input checked="" type="checkbox"/> Barium	<u>0.14</u>	<input checked="" type="checkbox"/> Barium	<u>70</u>	<input type="checkbox"/> Sulfates	
<input checked="" type="checkbox"/> Cadmium	<u><0.08</u>	<input checked="" type="checkbox"/> Cadmium	<u><4.0</u>	<input type="checkbox"/> Zinc	
<input checked="" type="checkbox"/> Chromium	<u><0.20</u>	<input type="checkbox"/> Chloride		<input type="checkbox"/> Ph	
<input checked="" type="checkbox"/> Lead	<u><1.00</u>	<input checked="" type="checkbox"/> Chromium	<u>21</u>	<input type="checkbox"/> Conductivity	
<input checked="" type="checkbox"/> Mercury	<u><0.02</u>	<input type="checkbox"/> Copper		<input type="checkbox"/> TDS	
<input checked="" type="checkbox"/> Selenium	<u><0.005</u>	<input type="checkbox"/> Fluoride		<input type="checkbox"/> TOC	
<input checked="" type="checkbox"/> Silver	<u><0.20</u>	<input type="checkbox"/> Iron			
		<input checked="" type="checkbox"/> Lead	<u>18</u>		
		<input type="checkbox"/> Manganese			
		<input checked="" type="checkbox"/> Mercury	<u><0.1</u>		
		<input type="checkbox"/> Nitrate			
		<input checked="" type="checkbox"/> Selenium	<u>0.5</u>		

ORGANIC CHEMISTRY

Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
<input type="checkbox"/> P&T:GC/MS		<input type="checkbox"/> EDB		<input type="checkbox"/> Methoxychlor	
<input type="checkbox"/> Acid:B/N Ext.		<input type="checkbox"/> PCB's		<input type="checkbox"/> Toxaphene	
<input type="checkbox"/> TOX		<input type="checkbox"/> Petroleum		<input type="checkbox"/> 2,4-D	
		<input type="checkbox"/> Endrin		<input type="checkbox"/> 2,4,5-TP (silvex)	
		<input type="checkbox"/> Lindane			

MICROBIOLOGY

RADIOCHEMISTRY

Parameter	Parameter	Results PCi/l
<input type="checkbox"/> (MF) Coliform Colonies/100mls	<input type="checkbox"/> Gross Alpha	
<input type="checkbox"/> (MPN) Coliform Colonies/100mls	<input type="checkbox"/> Gross Beta	

Date Received _____ Date Reported 26 April 88

Date Extracted _____ Date Analyzed _____

Reported By _____ Lab Number 003654 1089

SAMPLE ANALYSES REQUEST

Site Number 80098 0557755 Field Sample Number 003649

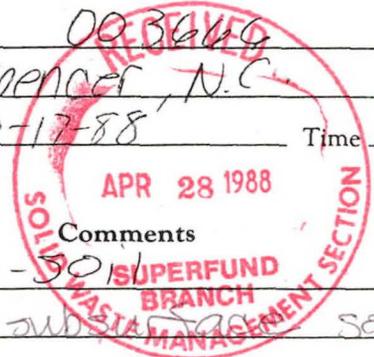
Name of Site Duens- Illinois Site Location SPENCER, N.C.

Collected By Cheryl McMorris ID# 47 Date Collected 2-17-88 Time 11:21

Type of Sample:

- | | |
|--|-------------------------------------|
| Environmental | Concentrate |
| <input type="checkbox"/> Groundwater (1) | <input type="checkbox"/> Solid (5) |
| <input type="checkbox"/> Surface Water (2) | <input type="checkbox"/> Liquid (6) |
| <input checked="" type="checkbox"/> Soil (3) | <input type="checkbox"/> Sludge (7) |
| <input type="checkbox"/> Other (4) | <input type="checkbox"/> Other (8) |

Comments
sample # 2-501
background subs.
3ft bls.
soil samp



INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/1	Parameter	Results mg/kg	Parameter	Results mg/kg
<input checked="" type="checkbox"/> Arsenic	<u><0.01</u>	<input checked="" type="checkbox"/> Arsenic	<u>1.0</u>	<input checked="" type="checkbox"/> Silver	<u><10</u>
<input checked="" type="checkbox"/> Barium	<u><0.04</u>	<input checked="" type="checkbox"/> Barium	<u>25</u>	— Sulfates	—
<input checked="" type="checkbox"/> Cadmium	<u><0.08</u>	<input checked="" type="checkbox"/> Cadmium	<u>10</u>	— Zinc	—
<input checked="" type="checkbox"/> Chromium	<u><0.20</u>	— Chloride	—	— Ph	—
<input checked="" type="checkbox"/> Lead	<u><1.00</u>	<input checked="" type="checkbox"/> Chromium	<u><10</u>	— Conductivity	—
<input checked="" type="checkbox"/> Mercury	<u><0.02</u>	— Copper	—	— TDS	—
<input checked="" type="checkbox"/> Selenium	<u><0.005</u>	— Fluoride	—	— TOC	—
<input checked="" type="checkbox"/> Silver	<u><0.20</u>	— Iron	—		
		<input checked="" type="checkbox"/> Lead	<u>3.0</u>		
		— Manganese	—		
		<input checked="" type="checkbox"/> Mercury	<u>0.15</u>		
		— Nitrate	—		
		<input checked="" type="checkbox"/> Selenium	<u>0.30</u>		

ORGANIC CHEMISTRY

Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
— P&T:GC/MS	—	— EDB	—	— Methoxychlor	—
— Acid:B/N Ext.	—	— PCB's	—	— Toxaphene	—
— TOX	—	— Petroleum	—	— 2,4-D	—
		— Endrin	—	— 2,4,5-TP (silvex)	—
		— Lindane	—		

MICROBIOLOGY

RADIOCHEMISTRY

Parameter	Parameter	Results PCi/1
— (MF) Coliform Colonies/100mls	— Gross Alpha	—
— (MPN) Coliform Colonies/100mls	— Gross Beta	—

Date Received _____ Date Reported 26 April 88
 Date Extracted _____ Date Analyzed _____
 Reported By _____ Lab Number 003655 FEB 16 88

SAMPLE ANALYSES REQUEST

Site Number 800980557755 Field Sample Number 003667

Name of Site Owens-Jillinois Site Location Spencer, N.C.

Collected By Cheryl McMorris ID# 47 Date Collected 2-17-88 Time 11:30

Type of Sample:

Environmental

Concentrate

- Groundwater (1)
- Surface Water (2)
- Soil (3)
- Other (4)
- Solid (5)
- Liquid (6)
- Sludge (7)
- Other (8)

Comments
Jamp #3 - 50' / surface soil sample from trench area.



INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/l	Parameter	Results mg/kg	Parameter	Results mg/kg
<input checked="" type="checkbox"/> Arsenic	<u><0.01</u>	<input checked="" type="checkbox"/> Arsenic	<u>2.0</u>	<input checked="" type="checkbox"/> Silver	<u><10</u>
<input checked="" type="checkbox"/> Barium	<u>0.17</u>	<input checked="" type="checkbox"/> Barium	<u>49</u>	Sulfates	
<input checked="" type="checkbox"/> Cadmium	<u><0.08</u>	<input checked="" type="checkbox"/> Cadmium	<u>6.0</u>	Zinc	
<input checked="" type="checkbox"/> Chromium	<u><0.20</u>	Chloride		Ph	
<input checked="" type="checkbox"/> Lead	<u><1.00</u>	<input checked="" type="checkbox"/> Chromium	<u>17</u>	Conductivity	
<input checked="" type="checkbox"/> Mercury	<u><0.02</u>	Copper		TDS	
<input checked="" type="checkbox"/> Selenium	<u><0.005</u>	Fluoride		TOC	
<input checked="" type="checkbox"/> Silver	<u><0.20</u>	Iron			
		<input checked="" type="checkbox"/> Lead	<u>27</u>		
		<input checked="" type="checkbox"/> Manganese			
		<input checked="" type="checkbox"/> Mercury	<u>0.15</u>		
		Nitrate			
		<input checked="" type="checkbox"/> Selenium	<u>0.30</u>		

ORGANIC CHEMISTRY

Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
P&T:GC/MS		EDB		Methoxychlor	
Acid:B/N Ext.		PCB's		Toxaphene	
TOX		Petroleum		2,4-D	
		Endrin		2,4,5-TP (silvex)	
		Lindane			

MICROBIOLOGY

RADIOCHEMISTRY

Parameter	Parameter	Results PCi/1
<input type="checkbox"/> (MF) Coliform Colonies/100mls	Gross Alpha	
<input type="checkbox"/> (MPN) Coliform Colonies/100mls	Gross Beta	

Date Received _____ Date Reported 26 April 88

Date Extracted _____ Date Analyzed _____

Reported By _____ Lab Number 003656 11/16/88

SAMPLE ANALYSES REQUEST

Site Number 800980557755 Field Sample Number 003668
 Name of Site Duens - Illinois Site Location Spencer NC
 Collected By Cheryl McMillis ID# 47 Date Collected 2/17/88 Time 11:40

Type of Sample:

- | | |
|--|-------------------------------------|
| Environmental | Concentrate |
| <input type="checkbox"/> Groundwater (1) | <input type="checkbox"/> Solid (5) |
| <input type="checkbox"/> Surface Water (2) | <input type="checkbox"/> Liquid (6) |
| <input checked="" type="checkbox"/> Soil (3) | <input type="checkbox"/> Sludge (7) |
| <input type="checkbox"/> Other (4) | <input type="checkbox"/> Other (8) |

Comments Samp #4 - 501
Subsurface solid sample
bis, collected from trench
area



INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/l	Parameter	Results mg/kg	Parameter	Results mg/kg
<input checked="" type="checkbox"/> Arsenic	<u><0.01</u>	<input checked="" type="checkbox"/> Arsenic	<u>1.4</u>	<input checked="" type="checkbox"/> Silver	<u><10</u>
<input checked="" type="checkbox"/> Barium	<u>0.04</u>	<input checked="" type="checkbox"/> Barium	<u>28</u>	Sulfates	
<input checked="" type="checkbox"/> Cadmium	<u><0.08</u>	<input checked="" type="checkbox"/> Cadmium	<u>11</u>	Zinc	
<input checked="" type="checkbox"/> Chromium	<u><0.20</u>	Chloride		Ph	
<input checked="" type="checkbox"/> Lead	<u><1.00</u>	<input checked="" type="checkbox"/> Chromium	<u>26</u>	Conductivity	
<input checked="" type="checkbox"/> Mercury	<u><0.02</u>	Copper		TDS	
<input checked="" type="checkbox"/> Selenium	<u><0.005</u>	Fluoride		TOC	
<input checked="" type="checkbox"/> Silver	<u><0.20</u>	Iron			
		<input checked="" type="checkbox"/> Lead	<u><2.2</u>		
		Manganese			
		<input checked="" type="checkbox"/> Mercury	<u>0.1</u>		
		Nitrate			
		<input checked="" type="checkbox"/> Selenium	<u><0.23</u>		

ORGANIC CHEMISTRY

Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
P&T:GC/MS		EDB		Methoxychlor	
Acid:B/N Ext.		PCB's		Toxaphene	
TOX		Petroleum		2,4-D	
		Endrin		2,4,5-TP (silvex)	
		Lindane			

MICROBIOLOGY

RADIOCHEMISTRY

Parameter	Parameter	Results PCi/l
<input type="checkbox"/> (MF) Coliform Colonies/100mls	<input type="checkbox"/> Gross Alpha	
<input type="checkbox"/> (MPN) Coliform Colonies/100mls	<input type="checkbox"/> Gross Beta	

Date Received _____ Date Reported 26 April 88
 Date Extracted _____ Date Analyzed _____
 Reported By _____ Lab Number 003657 PL91688

SAMPLE ANALYSES REQUEST

Site Number 800 980557755 Field Sample Number 003669
 Name of Site Duens - Illinois Site Location Spencer, N.C.
 Collected By Cheryl McMorris ID# 47 Date Collected 2/17/88 Time 12:25



Type of Sample:

- | | |
|--|--------------------------------------|
| <input type="checkbox"/> Environmental | <input type="checkbox"/> Concentrate |
| <input type="checkbox"/> Groundwater (1) | <input type="checkbox"/> Solid (5) |
| <input type="checkbox"/> Surface Water (2) | <input type="checkbox"/> Liquid (6) |
| <input checked="" type="checkbox"/> Soil (3) | <input type="checkbox"/> Sludge (7) |
| <input type="checkbox"/> Other (4) | <input type="checkbox"/> Other (8) |

Comments camp # 5-5011
subsurface soil sample from
trench area, 31 inches bls

INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/1	Parameter	Results mg/kg	Parameter	Results mg/kg
<input checked="" type="checkbox"/> Arsenic	<u><0.01</u>	<input checked="" type="checkbox"/> Arsenic	<u>1.5</u>	<input checked="" type="checkbox"/> Silver	<u><10</u>
<input checked="" type="checkbox"/> Barium	<u>1.13</u>	<input checked="" type="checkbox"/> Barium	<u>2460</u>	Sulfates	
<input checked="" type="checkbox"/> Cadmium	<u><0.08</u>	<input checked="" type="checkbox"/> Cadmium	<u>4.0</u>	Zinc	
<input checked="" type="checkbox"/> Chromium	<u><0.20</u>	Chloride		Ph	
<input checked="" type="checkbox"/> Lead	<u>17.11</u>	<input checked="" type="checkbox"/> Chromium	<u>5580</u>	Conductivity	
<input checked="" type="checkbox"/> Mercury	<u><0.02</u>	Copper		TDS	
<input checked="" type="checkbox"/> Selenium	<u><0.05</u>	Fluoride		TOC	
<input checked="" type="checkbox"/> Silver	<u><0.20</u>	Iron			
		<input checked="" type="checkbox"/> Lead	<u>24,600</u>		
		Manganese			
		<input checked="" type="checkbox"/> Mercury	<u><0.1</u>		
		Nitrate			
		<input checked="" type="checkbox"/> Selenium	<u><2.5</u>		

ORGANIC CHEMISTRY

Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
P&T:GC/MS		EDB		Methoxychlor	
Acid:B/N Ext.		PCB's		Toxaphene	
TOX		Petroleum		2,4-D	
		Endrin		2,4,5-TP (silvex)	
		Lindane			

MICROBIOLOGY

RADIOCHEMISTRY

Parameter	Parameter	Results PCi/1
<input type="checkbox"/> (MF) Coliform Colonies/100mls	<input type="checkbox"/> Gross Alpha	
<input type="checkbox"/> (MPN) Coliform Colonies/100mls	<input type="checkbox"/> Gross Beta	

Date Received _____ Date Reported 26 April 88
 Date Extracted _____ Date Analyzed _____
 Reported By _____ Lab Number 003658 1118 88

SAMPLE ANALYSES REQUEST

Site Number 800980557755 Field Sample Number 003670
 Name of Site Arens - Illinois Site Location Spencer, N.C.
 Collected By Cheryl McMorris ID# 47 Date Collected 2/17/88 Time 1:09
 Type of Sample:

- | | |
|---|-------------------------------------|
| Environmental | Concentrate |
| <input type="checkbox"/> Groundwater (1) | <input type="checkbox"/> Solid (5) |
| <input type="checkbox"/> Surface Water (2) | <input type="checkbox"/> Liquid (6) |
| <input type="checkbox"/> Soil (3) | <input type="checkbox"/> Sludge (7) |
| <input checked="" type="checkbox"/> Other (4) | <input type="checkbox"/> Other (8) |

Comments
Samp. #6 - sediment
collected from drainage
swell at toe of slope on site



INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/l	Parameter	Results mg/kg	Parameter	Results mg/kg
<input checked="" type="checkbox"/> Arsenic	<u>40.01</u>	<input checked="" type="checkbox"/> Arsenic	<u>4.0</u>	<input checked="" type="checkbox"/> Silver	<u><10</u>
<input checked="" type="checkbox"/> Barium	<u>1.56</u>	<input checked="" type="checkbox"/> Barium	<u>302</u>	Sulfates	
<input checked="" type="checkbox"/> Cadmium	<u><0.08</u>	<input checked="" type="checkbox"/> Cadmium	<u><4.0</u>	Zinc	
<input checked="" type="checkbox"/> Chromium	<u><0.20</u>	Chloride		Ph	
<input checked="" type="checkbox"/> Lead	<u><1.00</u>	<input checked="" type="checkbox"/> Chromium	<u>332</u>	Conductivity	
<input checked="" type="checkbox"/> Mercury	<u><0.02</u>	Copper		TDS	
<input checked="" type="checkbox"/> Selenium	<u><0.05</u>	Fluoride		TOC	
<input checked="" type="checkbox"/> Silver	<u><0.20</u>	Iron			
		<input checked="" type="checkbox"/> Lead	<u>2400</u>		
		Manganese			
		<input checked="" type="checkbox"/> Mercury	<u><0.1</u>		
		Nitrate			
		<input checked="" type="checkbox"/> Selenium	<u><2.4</u>		

ORGANIC CHEMISTRY

Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
P&T:GC/MS		EDB		Methoxychlor	
Acid:B/N Ext.		PCB's		Toxaphene	
TOX		Petroleum		2,4-D	
		Endrin		2,4,5-TP (silvex)	
		Lindane			

MICROBIOLOGY

Parameter
<input type="checkbox"/> (MF) Coliform Colonies/100mls
<input type="checkbox"/> (MPN) Coliform Colonies/100mls

RADIOCHEMISTRY

Parameter	Results PCi/l
<input type="checkbox"/> Gross Alpha	
<input type="checkbox"/> Gross Beta	

Date Received _____ Date Reported 26 April 88
 Date Extracted _____ Date Analyzed _____
 Reported By _____ Lab Number 003659 11 18 88

SAMPLE ANALYSES REQUEST

Site Number 800980557755 Field Sample Number 003931
 Name of Site Quens - Illinois Site Location Spencer, N.C.
 Collected By Cheryl A. McMorris ID# 47 Date Collected 2-17-88 Time 11:15

Type of Sample:

- | | |
|--|-------------------------------------|
| Environmental | Concentrate |
| <input type="checkbox"/> Groundwater (1) | <input type="checkbox"/> Solid (5) |
| <input type="checkbox"/> Surface Water (2) | <input type="checkbox"/> Liquid (6) |
| <input checked="" type="checkbox"/> Soil (3) | <input type="checkbox"/> Sludge (7) |
| <input type="checkbox"/> Other (4) | <input type="checkbox"/> Other (8) |

Comments
soil samp #1
background
sample



INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
_____ Arsenic	_____	_____ Arsenic	_____	_____ Silver	_____
_____ Barium	_____	_____ Barium	_____	_____ Sulfates	_____
_____ Cadmium	_____	_____ Cadmium	_____	_____ Zinc	_____
_____ Chromium	_____	_____ Chloride	_____	_____ Ph	_____
_____ Lead	_____	_____ Chromium	_____	_____ Conductivity	_____
_____ Mercury	_____	_____ Copper	_____	_____ TDS	_____
_____ Selenium	_____	_____ Fluoride	_____	_____ TOC	_____
_____ Silver	_____	_____ Iron	_____		
_____	_____	_____ Lead	_____		
_____	_____	_____ Manganese	_____		
_____	_____	_____ Mercury	_____		
_____	_____	_____ Nitrate	_____		
_____	_____	_____ Selenium	_____		

ORGANIC CHEMISTRY

Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
<input checked="" type="checkbox"/> P&T:GC/MS	_____	_____ EDB	_____	_____ Methoxychlor	_____
<input checked="" type="checkbox"/> Acid:B/N Ext.	_____	_____ PCB's	_____	_____ Toxaphene	_____
_____ TOX	_____	_____ Petroleum	_____	_____ 2,4-D	_____
_____	_____	_____ Endrin	_____	_____ 2,4,5-TP (silvex)	_____
_____	_____	_____ Lindane	_____		

MICROBIOLOGY

Parameter
_____ (MF) Coliform Colonies/100mls
_____ (MPN) Coliform Colonies/100mls

RADIOCHEMISTRY

Parameter	Results PCi/1
_____ Gross Alpha	_____
_____ Gross Beta	_____
_____	_____
_____	_____

Date Received 2-18-88 VP Date Reported 3-25-88
 Date Extracted all samples 2-19-88 BD Date Analyzed PT 2-19-88 nw all samples BNA 2-22-88
 Reported By John R. Neal Lab Number 800478

#800478 - 800483

Purpose: Enforcement and compliance with the N. C. Solid and Hazardous Waste Management Rules.

Preparation A sample analyses request form (DHS 3191) must be completed for each type of evaluation requested (e.g., inorganic, organic, microbiology, radiochemistry). For sampling conditions which require more than one (1) container (i.e., ground or surface water from landfills) a sample label must be affixed to one of the containers. The collector must then write the site and sample number on the duplicate.

Do not submit an analysis request sheet with no parameters indicated.

Equivalent measurements:

$$\text{ppm} = \mu\text{g}/\text{ml} = \text{mg}/1 = \mu\text{g}/\text{g} = \text{mg}/\text{kg}$$

$$\text{ppb} = \mu\text{g}/1 = \mu\text{g}/1000\text{g} = \mu\text{g}/\text{kg}$$

DEFINITIONS/INSTRUCTIONS

Site Number — A twelve-digit site/location identifier, assigned only by the district field representative.

Field Sample Number — A six-digit sample identifier which is pre-printed on the sample label.

Name of Site — Name of landfill, facility, etc.

Site Location — Address, street number, state road, etc.

Collected By — Name and ID of sample collector.

Date and Time Collected — Self-explanatory.

Environmental — A sample of a naturally occurring substance such as groundwater, surface water or soils which may be contaminated.

Concentrate — A sample of a waste, including but not limited to, sludges, resins, treatment effluents or drummed wastes.

Comments — Lists details regarding sample or sample point, including but limited to, phase separation, and/or odors.

Inorganic Chemistry — Check (✓) the desired parameters to be analyzed. Extractables are only performed on a solid or semi-solid. For routine landfill samples, check all parameters in the second and third columns.

Organic Chemistry — Check (✓) the desired parameter to be analyzed. If not listed, enter the name in the space provided.

Microbiology and Radiochemistry — The Raleigh office should be consulted prior to sampling for either of these.

Distribution: 1. Original to State Laboratory of Public Health

Environmental Sciences Branch
P. O. Box 28047
Raleigh, NC 27611

2. Lab sends copy to Solid and Hazardous Waste Management Branch.

3. Solid and Hazardous Waste Management Branch sends copy to field person.

Disposition: This form may be destroyed in accordance with the Environmental Health, Solid and Hazardous Waste Section of the *Records Disposition Schedule* as published by the North Carolina Division of Archives and History.

Additional forms may be ordered from:

Solid and Hazardous Waste Management Branch
Division of Health Services
P. O. Box 2091
Raleigh, NC 27602-2091

SAMPLE ANALYSES REQUEST

Site Number 800980557755 Field Sample Number 00.3932

Name of Site WELLS - Illinois Site Location SPENCER N.C.

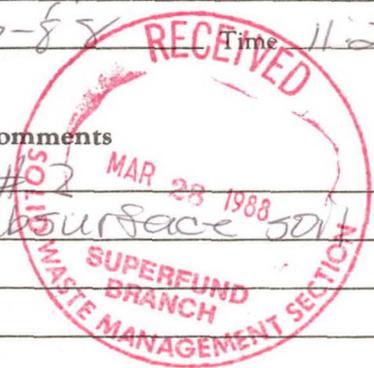
Collected By Cheryl McMorris ID# 47 Date Collected 2-17-88 Time 11:21

Type of Sample:

- | | |
|--|-------------------------------------|
| Environmental | Concentrate |
| <input type="checkbox"/> Groundwater (1) | <input type="checkbox"/> Solid (5) |
| <input type="checkbox"/> Surface Water (2) | <input type="checkbox"/> Liquid (6) |
| <input checked="" type="checkbox"/> Soil (3) | <input type="checkbox"/> Sludge (7) |
| <input type="checkbox"/> Other (4) | <input type="checkbox"/> Other (8) |

Comments

soil samp. #2
background subsurface soil
samp, 3 ft bls



INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
_____	_____	Arsenic	_____	Silver	_____
_____	_____	Barium	_____	Sulfates	_____
_____	_____	Cadmium	_____	Zinc	_____
_____	_____	Chloride	_____	Ph	_____
_____	_____	Chromium	_____	Conductivity	_____
_____	_____	Copper	_____	TDS	_____
_____	_____	Fluoride	_____	TOC	_____
_____	_____	Iron	_____	_____	_____
_____	_____	Lead	_____	_____	_____
_____	_____	Manganese	_____	_____	_____
_____	_____	Mercury	_____	_____	_____
_____	_____	Nitrate	_____	_____	_____
_____	_____	Selenium	_____	_____	_____

ORGANIC CHEMISTRY

Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
<input checked="" type="checkbox"/> P&T:GC/MS	_____	EDB	_____	Methoxychlor	_____
<input checked="" type="checkbox"/> Acid:B/N Ext.	_____	PCB's	_____	Toxaphene	_____
_____ TOX	_____	Petroleum	_____	2,4-D	_____
_____	_____	Endrin	_____	2,4,5-TP (silvex)	_____
_____	_____	Lindane	_____	_____	_____

MICROBIOLOGY

RADIOCHEMISTRY

Parameter	Parameter	Results PCi/1
_____ (MF) Coliform Colonies/100mls	_____ Gross Alpha	_____
_____ (MPN) Coliform Colonies/100mls	_____ Gross Beta	_____
_____	_____	_____

Date Received 2-18-88 VP Date Reported _____

Date Extracted _____ Date Analyzed 2-19-88 rw

Reported By _____ Lab Number 800479

Purpose: Enforcement and compliance with the N. C. Solid and Hazardous Waste Management Rules.

Preparation A sample analyses request form (DHS 3191) must be completed for each type of evaluation requested (e.g., inorganic, organic, microbiology, radiochemistry). For sampling conditions which require more than one (1) container (i.e., ground or surface water from landfills) a sample label must be affixed to one of the containers. The collector must then write the site and sample number on the duplicate.

Do not submit an analysis request sheet with no parameters indicated.

Equivalent measurements:

$$\begin{aligned} \text{ppm} &= \mu\text{g}/\text{ml} = \text{mg}/1 = \mu\text{g}/\text{g} = \text{mg}/\text{kg} \\ \text{ppb} &= \mu\text{g}/1 = \mu\text{g}/1000\text{g} = \mu\text{g}/\text{kg} \end{aligned}$$

DEFINITIONS/INSTRUCTIONS

Site Number — A twelve-digit site/location identifier, assigned only by the district field representative.

Field Sample Number — A six-digit sample identifier which is pre-printed on the sample label.

Name of Site — Name of landfill, facility, etc.

Site Location — Address, street number, state road, etc.

Collected By — Name and ID of sample collector.

Date and Time Collected — Self-explanatory.

Environmental — A sample of a naturally occurring substance such as groundwater, surface water or soils which may be contaminated.

Concentrate — A sample of a waste, including but not limited to, sludges, resins, treatment effluents or drummed wastes.

Comments — Lists details regarding sample or sample point, including but limited to, phase separation, and/or odors.

Inorganic Chemistry — Check (✓) the desired parameters to be analyzed. Extractables are only performed on a solid or semi-solid. For routine landfill samples, check all parameters in the second and third columns.

Organic Chemistry — Check (✓) the desired parameter to be analyzed. If not listed, enter the name in the space provided.

Microbiology and Radiochemistry — The Raleigh office should be consulted prior to sampling for either of these.

Distribution: 1. Original to State Laboratory of Public Health

Environmental Sciences Branch
P. O. Box 28047
Raleigh, NC 27611

2. Lab sends copy to Solid and Hazardous Waste Management Branch.

3. Solid and Hazardous Waste Management Branch sends copy to field person.

Disposition: This form may be destroyed in accordance with the Environmental Health, Solid and Hazardous Waste Section of the *Records Disposition Schedule* as published by the North Carolina Division of Archives and History.

Additional forms may be ordered from:

Solid and Hazardous Waste Management Branch
Division of Health Services
P. O. Box 2091
Raleigh, NC 27602-2091

SAMPLE ANALYSES REQUEST

Site Number 800980557755 Field Sample Number 203933

Name of Site Owens - Illinois Site Location SPENCER, N.C.

Collected By Cheryl McMorris ID# 47 Date Collected 2-17-88 Time 11:30

Type of Sample:

- | | |
|--|--------------------------------------|
| <input type="checkbox"/> Environmental | <input type="checkbox"/> Concentrate |
| <input type="checkbox"/> Groundwater (1) | <input type="checkbox"/> Solid (5) |
| <input type="checkbox"/> Surface Water (2) | <input type="checkbox"/> Liquid (6) |
| <input checked="" type="checkbox"/> Soil (3) | <input type="checkbox"/> Sludge (7) |
| <input type="checkbox"/> Other (4) | <input type="checkbox"/> Other (8) |

Comments

soil samp # 5
Surface soil sample from
trench area.



INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
_____ Arsenic	_____	_____ Arsenic	_____	_____ Silver	_____
_____ Barium	_____	_____ Barium	_____	_____ Sulfates	_____
_____ Cadmium	_____	_____ Cadmium	_____	_____ Zinc	_____
_____ Chromium	_____	_____ Chloride	_____	_____ Ph	_____
_____ Lead	_____	_____ Chromium	_____	_____ Conductivity	_____
_____ Mercury	_____	_____ Copper	_____	_____ TDS	_____
_____ Selenium	_____	_____ Fluoride	_____	_____ TOC	_____
_____ Silver	_____	_____ Iron	_____		
_____	_____	_____ Lead	_____		
_____	_____	_____ Manganese	_____		
_____	_____	_____ Mercury	_____		
_____	_____	_____ Nitrate	_____		
_____	_____	_____ Selenium	_____		

ORGANIC CHEMISTRY

Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
<input checked="" type="checkbox"/> P&T:GC/MS	_____	_____ EDB	_____	_____ Methoxychlor	_____
<input checked="" type="checkbox"/> Acid:B/N Ext.	_____	_____ PCB's	_____	_____ Toxaphene	_____
_____ TOX	_____	_____ Petroleum	_____	_____ 2,4-D	_____
_____	_____	_____ Endrin	_____	_____ 2,4,5-TP (silvex)	_____
_____	_____	_____ Lindane	_____		

MICROBIOLOGY

RADIOCHEMISTRY

Parameter	Parameter	Results PCi/1
_____ (MF) Coliform Colonies/100mls	_____ Gross Alpha	_____
_____ (MPN) Coliform Colonies/100mls	_____ Gross Beta	_____

Date Received 2-18-88 VP Date Reported _____

Date Extracted _____ Date Analyzed PT 2-19-88 rw

Reported By _____ Lab Number 800480

Purpose: Enforcement and compliance with the N. C. Solid and Hazardous Waste Management Rules.

Preparation A sample analyses request form (DHS 3191) must be completed for each type of evaluation requested (e.g., inorganic, organic, microbiology, radiochemistry). For sampling conditions which require more than one (1) container (i.e., ground or surface water from landfills) a sample label must be affixed to one of the containers. The collector must then write the site and sample number on the duplicate.

Do not submit an analysis request sheet with no parameters indicated.

Equivalent measurements:

$$\text{ppm} = \mu\text{g}/\text{ml} = \text{mg}/\text{l} = \mu\text{g}/\text{g} = \text{mg}/\text{kg}$$

$$\text{ppb} = \mu\text{g}/\text{l} = \mu\text{g}/1000\text{g} = \mu\text{g}/\text{kg}$$

DEFINITIONS/INSTRUCTIONS

Site Number — A twelve-digit site/location identifier, assigned only by the district field representative.

Field Sample Number — A six-digit sample identifier which is pre-printed on the sample label.

Name of Site — Name of landfill, facility, etc.

Site Location — Address, street number, state road, etc.

Collected By — Name and ID of sample collector.

Date and Time Collected — Self-explanatory.

Environmental — A sample of a naturally occurring substance such as groundwater, surface water or soils which may be contaminated.

Concentrate — A sample of a waste, including but not limited to, sludges, resins, treatment effluents or drummed wastes.

Comments — Lists details regarding sample or sample point, including but limited to, phase separation, and/or odors.

Inorganic Chemistry — Check (✓) the desired parameters to be analyzed. Extractables are only performed on a solid or semi-solid. For routine landfill samples, check all parameters in the second and third columns.

Organic Chemistry — Check (✓) the desired parameter to be analyzed. If not listed, enter the name in the space provided.

Microbiology and Radiochemistry — The Raleigh office should be consulted prior to sampling for either of these.

Distribution: 1. Original to State Laboratory of Public Health

Environmental Sciences Branch
P. O. Box 28047
Raleigh, NC 27611

2. Lab sends copy to Solid and Hazardous Waste Management Branch.

3. Solid and Hazardous Waste Management Branch sends copy to field person.

Disposition: This form may be destroyed in accordance with the Environmental Health, Solid and Hazardous Waste Section of the *Records Disposition Schedule* as published by the North Carolina Division of Archives and History.

Additional forms may be ordered from:

Solid and Hazardous Waste Management Branch
Division of Health Services
P. O. Box 2091
Raleigh, NC 27602-2091

SAMPLE ANALYSES REQUEST

Site Number 800980557755 Field Sample Number 003934
 Name of Site Duans-ILLINOIS Site Location SPENCER, N.C.
 Collected By Cheryl McMorris ID# 47 Date Collected 2-17-88 Time 11:40

Type of Sample:

- | | |
|--|-------------------------------------|
| Environmental | Concentrate |
| <input type="checkbox"/> Groundwater (1) | <input type="checkbox"/> Solid (5) |
| <input type="checkbox"/> Surface Water (2) | <input type="checkbox"/> Liquid (6) |
| <input checked="" type="checkbox"/> Soil (3) | <input type="checkbox"/> Sludge (7) |
| <input type="checkbox"/> Other (4) | <input type="checkbox"/> Other (8) |

Comments
Soil JUMP # 4
Subsurface soil sample, 3 ft bls
collected from fresh area



INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
_____ Arsenic	_____	_____ Arsenic	_____	_____ Silver	_____
_____ Barium	_____	_____ Barium	_____	_____ Sulfates	_____
_____ Cadmium	_____	_____ Cadmium	_____	_____ Zinc	_____
_____ Chromium	_____	_____ Chloride	_____	_____ Ph	_____
_____ Lead	_____	_____ Chromium	_____	_____ Conductivity	_____
_____ Mercury	_____	_____ Copper	_____	_____ TDS	_____
_____ Selenium	_____	_____ Fluoride	_____	_____ TOC	_____
_____ Silver	_____	_____ Iron	_____		
_____	_____	_____ Lead	_____		
_____	_____	_____ Manganese	_____		
_____	_____	_____ Mercury	_____		
_____	_____	_____ Nitrate	_____		
_____	_____	_____ Selenium	_____		

ORGANIC CHEMISTRY

Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
<input checked="" type="checkbox"/> P&T:GC/MS	_____	_____ EDB	_____	_____ Methoxychlor	_____
<input checked="" type="checkbox"/> Acid:B/N Ext.	_____	_____ PCB's	_____	_____ Toxaphene	_____
_____ TOX	_____	_____ Petroleum	_____	_____ 2,4-D	_____
_____	_____	_____ Endrin	_____	_____ 2,4,5-TP (silvex)	_____
_____	_____	_____ Lindane	_____		

MICROBIOLOGY

Parameter
_____ (MF) Coliform Colonies/100mls
_____ (MPN) Coliform Colonies/100mls

RADIOCHEMISTRY

Parameter	Results PCi/1
_____ Gross Alpha	_____
_____ Gross Beta	_____
_____	_____
_____	_____

Date Received 2-18-88 VP Date Reported _____
 Date Extracted _____ Date Analyzed PT 2-19-88 mw
 Reported By _____ Lab Number **800481**

Purpose: Enforcement and compliance with the N. C. Solid and Hazardous Waste Management Rules.

Preparation A sample analyses request form (DHS 3191) must be completed for each type of evaluation requested (e.g., inorganic, organic, microbiology, radiochemistry). For sampling conditions which require more than one (1) container (i.e., ground or surface water from landfills) a sample label must be affixed to one of the containers. The collector must then write the site and sample number on the duplicate.

Do not submit an analysis request sheet with no parameters indicated.

Equivalent measurements:

$$\begin{aligned} \text{ppm} &= \mu\text{g}/\text{ml} = \text{mg}/1 = \mu\text{g}/\text{g} = \text{mg}/\text{kg} \\ \text{ppb} &= \mu\text{g}/1 = \mu\text{g}/1000\text{g} = \mu\text{g}/\text{kg} \end{aligned}$$

DEFINITIONS/INSTRUCTIONS

Site Number — A twelve-digit site/location identifier, assigned only by the district field representative.

Field Sample Number — A six-digit sample identifier which is pre-printed on the sample label.

Name of Site — Name of landfill, facility, etc.

Site Location — Address, street number, state road, etc.

Collected By — Name and ID of sample collector.

Date and Time Collected — Self-explanatory.

Environmental — A sample of a naturally occurring substance such as groundwater, surface water or soils which may be contaminated.

Concentrate — A sample of a waste, including but not limited to, sludges, resins, treatment effluents or drummed wastes.

Comments — Lists details regarding sample or sample point, including but limited to, phase separation, and/or odors.

Inorganic Chemistry — Check (✓) the desired parameters to be analyzed. Extractables are only performed on a solid or semi-solid. For routine landfill samples, check all parameters in the second and third columns.

Organic Chemistry — Check (✓) the desired parameter to be analyzed. If not listed, enter the name in the space provided.

Microbiology and Radiochemistry — The Raleigh office should be consulted prior to sampling for either of these.

Distribution: 1. Original to State Laboratory of Public Health

Environmental Sciences Branch
P. O. Box 28047
Raleigh, NC 27611

2. Lab sends copy to Solid and Hazardous Waste Management Branch.

3. Solid and Hazardous Waste Management Branch sends copy to field person.

Disposition: This form may be destroyed in accordance with the Environmental Health, Solid and Hazardous Waste Section of the *Records Disposition Schedule* as published by the North Carolina Division of Archives and History.

Additional forms may be ordered from:

Solid and Hazardous Waste Management Branch
Division of Health Services
P. O. Box 2091
Raleigh, NC 27602-2091

SAMPLE ANALYSES REQUEST

Site Number 800980557755 Field Sample Number 003935
 Name of Site Duans- Illinois Site Location Spencer, N. C.
 Collected By Cheryl McMorris ID# 47 Date Collected 2-17-88 Time 12:25

Type of Sample:

- | | |
|--|-------------------------------------|
| Environmental | Concentrate |
| <input type="checkbox"/> Groundwater (1) | <input type="checkbox"/> Solid (5) |
| <input type="checkbox"/> Surface Water (2) | <input type="checkbox"/> Liquid (6) |
| <input checked="" type="checkbox"/> Soil (3) | <input type="checkbox"/> Sludge (7) |
| <input type="checkbox"/> Other (4) | <input type="checkbox"/> Other (8) |

Comments
Soil samp #5
Subsurface soil sample from trench
area, 31 inches b/s



INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
_____ Arsenic	_____	_____ Arsenic	_____	_____ Silver	_____
_____ Barium	_____	_____ Barium	_____	_____ Sulfates	_____
_____ Cadmium	_____	_____ Cadmium	_____	_____ Zinc	_____
_____ Chromium	_____	_____ Chloride	_____	_____ Ph	_____
_____ Lead	_____	_____ Chromium	_____	_____ Conductivity	_____
_____ Mercury	_____	_____ Copper	_____	_____ TDS	_____
_____ Selenium	_____	_____ Fluoride	_____	_____ TOC	_____
_____ Silver	_____	_____ Iron	_____		
_____	_____	_____ Lead	_____		
_____	_____	_____ Manganese	_____		
_____	_____	_____ Mercury	_____		
_____	_____	_____ Nitrate	_____		
_____	_____	_____ Selenium	_____		

ORGANIC CHEMISTRY

Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
<input checked="" type="checkbox"/> P&T:GC/MS	_____	_____ EDB	_____	_____ Methoxychlor	_____
<input checked="" type="checkbox"/> Acid:B/N Ext.	_____	_____ PCB's	_____	_____ Toxaphene	_____
_____ TOX	_____	_____ Petroleum	_____	_____ 2,4-D	_____
_____	_____	_____ Endrin	_____	_____ 2,4,5-TP (silvex)	_____
_____	_____	_____ Lindane	_____		

MICROBIOLOGY

RADIOCHEMISTRY

Parameter	Parameter	Results PCi/1
_____ (MF) Coliform Colonies/100mls	_____ Gross Alpha	_____
_____ (MPN) Coliform Colonies/100mls	_____ Gross Beta	_____

Date Received 2-18-88 VP Date Reported _____
 Date Extracted _____ Date Analyzed PT 2-19-88 nw
 Reported By _____ Lab Number 800482

Purpose: Enforcement and compliance with the N. C. Solid and Hazardous Waste Management Rules.

Preparation A sample analyses request form (DHS 3191) must be completed for each type of evaluation requested (e.g., inorganic, organic, microbiology, radiochemistry). For sampling conditions which require more than one (1) container (i.e., ground or surface water from landfills) a sample label must be affixed to one of the containers. The collector must then write the site and sample number on the duplicate.

Do not submit an analysis request sheet with no parameters indicated.

Equivalent measurements:

$$\begin{aligned} \text{ppm} &= \mu\text{g}/\text{ml} = \text{mg}/1 = \mu\text{g}/\text{g} = \text{mg}/\text{kg} \\ \text{ppb} &= \mu\text{g}/1 = \mu\text{g}/1000\text{g} = \mu\text{g}/\text{kg} \end{aligned}$$

DEFINITIONS/INSTRUCTIONS

Site Number — A twelve-digit site/location identifier, assigned only by the district field representative.

Field Sample Number — A six-digit sample identifier which is pre-printed on the sample label.

Name of Site — Name of landfill, facility, etc.

Site Location — Address, street number, state road, etc.

Collected By — Name and ID of sample collector.

Date and Time Collected — Self-explanatory.

Environmental — A sample of a naturally occurring substance such as groundwater, surface water or soils which may be contaminated.

Concentrate — A sample of a waste, including but not limited to, sludges, resins, treatment effluents or drummed wastes.

Comments — Lists details regarding sample or sample point, including but limited to, phase separation, and/or odors.

Inorganic Chemistry — Check () the desired parameters to be analyzed. Extractables are only performed on a solid or semi-solid. For routine landfill samples, check all parameters in the second and third columns.

Organic Chemistry — Check () the desired parameter to be analyzed. If not listed, enter the name in the space provided.

Microbiology and Radiochemistry — The Raleigh office should be consulted prior to sampling for either of these.

Distribution: 1. Original to State Laboratory of Public Health

Environmental Sciences Branch
P. O. Box 28047
Raleigh, NC 27611

2. Lab sends copy to Solid and Hazardous Waste Management Branch.

3. Solid and Hazardous Waste Management Branch sends copy to field person.

Disposition: This form may be destroyed in accordance with the Environmental Health, Solid and Hazardous Waste Section of the *Records Disposition Schedule* as published by the North Carolina Division of Archives and History.

Additional forms may be ordered from:

Solid and Hazardous Waste Management Branch
Division of Health Services
P. O. Box 2091
Raleigh, NC 27602-2091

Purpose: Enforcement and compliance with the N. C. Solid and Hazardous Waste Management Rules.

Preparation A sample analyses request form (DHS 3191) must be completed for each type of evaluation requested (e.g., inorganic, organic, microbiology, radiochemistry). For sampling conditions which require more than one (1) container (i.e., ground or surface water from landfills) a sample label must be affixed to one of the containers. The collector must then write the site and sample number on the duplicate.

Do not submit an analysis request sheet with no parameters indicated.

Equivalent measurements:

$$\begin{aligned} \text{ppm} &= \mu\text{g}/\text{ml} = \text{mg}/1 = \mu\text{g}/\text{g} = \text{mg}/\text{kg} \\ \text{ppb} &= \mu\text{g}/1 = \mu\text{g}/1000\text{g} = \mu\text{g}/\text{kg} \end{aligned}$$

DEFINITIONS/INSTRUCTIONS

Site Number — A twelve-digit site/location identifier, assigned only by the district field representative.

Field Sample Number — A six-digit sample identifier which is pre-printed on the sample label.

Name of Site — Name of landfill, facility, etc.

Site Location — Address, street number, state road, etc.

Collected By — Name and ID of sample collector.

Date and Time Collected — Self-explanatory.

Environmental — A sample of a naturally occurring substance such as groundwater, surface water or soils which may be contaminated.

Concentrate — A sample of a waste, including but not limited to, sludges, resins, treatment effluents or drummed wastes.

Comments — Lists details regarding sample or sample point, including but limited to, phase separation, and/or odors.

Inorganic Chemistry — Check (✓) the desired parameters to be analyzed. Extractables are only performed on a solid or semi-solid. For routine landfill samples, check all parameters in the second and third columns.

Organic Chemistry — Check (✓) the desired parameter to be analyzed. If not listed, enter the name in the space provided.

Microbiology and Radiochemistry — The Raleigh office should be consulted prior to sampling for either of these.

Distribution: 1. Original to State Laboratory of Public Health

Environmental Sciences Branch
P. O. Box 28047
Raleigh, NC 27611

2. Lab sends copy to Solid and Hazardous Waste Management Branch.

3. Solid and Hazardous Waste Management Branch sends copy to field person.

Disposition: This form may be destroyed in accordance with the Environmental Health, Solid and Hazardous Waste Section of the *Records Disposition Schedule* as published by the North Carolina Division of Archives and History.

Additional forms may be ordered from:

Solid and Hazardous Waste Management Branch
Division of Health Services
P. O. Box 2091
Raleigh, NC 27602-2091

SOLID AND HAZARDOUS WASTE MANAGEMENT BRANCH

Receipt for Samples

The samples described below were collected in connection with the administration, enforcement, and documentation of the:

- () North Carolina Hazardous Waste Management Rules, 10 NCAC 10F
- () North Carolina Solid Waste Management Rules, 10 NCAC 10G
- (X) Comprehensive Environmental Response, Compensation and Liability Act (CERCLA)
- () Toxic Substances Control Act (TSCA), 15 U.S.C. §2601, et seq., specifically Section 11 of TSCA, 15 U.S.C. § 2610.

Solid waste Mgmt section
P.O. Box 2091, Raleigh, N.C.

Cheryl A. McMorris
Inspector's Name

Inspector's Address

Owens-Illinois
Name of Firm

Old U.S. 21 North. Spencer, N.C.
Firm Address

Mr. Jerry Klutz
Firm Owner, Operator, or Agent

Production Manager
Title

SAMPLE NUMBER	COLLECTED		SAMPLE TYPE			DUPLICATE SAMPLES			SAMPLE LOCATION	
	DATE	TIME	WATER	SOIL	OTHER	OFFERED	ACCEPTED	REJECTED	ON-SITE	OFF-SITE
1	2/17	11:15		X		X		X	X	
2	2/17	11:21		X		X		X	X	
3	2/17	11:30		X		X		X	X	
4	2/17	11:55		X		X		X	X	
5	2/17	12:25		X		X		X	X	
6	2/17	1:09			X	X		X	X	

Receipt for the sample(s) described above is hereby acknowledged:

[Signature]
Signature of Inspector

Chemist
Title

Receipt/rejection of duplicate or split samples is hereby acknowledged:

[Signature]
Signature of Firm Owner, Operator, or Agent

Production Manager
Title

COMMENTS _____

STATE LABORATORY OF PUBLIC HEALTH
 DIVISION OF HEALTH SERVICES, N.C. DEPARTMENT OF HUMAN RESOURCES
 P.O. BOX 28047 - 306 N. WILMINGTON, ST., RALEIGH, N.C. 27611

ORGANIC CHEMICAL ANALYSIS

BASE/NEUTRAL AND ACID EXTRACTABLES	LAB NO	800478	800479	800480	800481	800482	800483
COMPOUND	FIELD #	3931	3932	3933	3934	3935	3936
	TYPE	(3)	(3)	(3)	(3)	(3)	(4)
	UNITS	µg/l µg/kg					
N-nitrosodimethylamine	10/330	u	u	u	u	u	u
bis(2-chloroethyl)ether							
2-chlorophenol							
phenol							
1,3-dichlorobenzene							
1,4-dichlorobenzene							
1,2-dichlorobenzene							
bis(2-chloroisopropyl)ether							
hexachloroethane							
N-nitroso-di-n-propylamine							
nitrobenzene							
isophorone							
2-nitrophenol							
2,4-dimethylphenol							
bis(2-chloroethoxy)methane							
2,4-dichlorophenol							
1,2,4-trichlorobenzene							
naphthalene							
hexachlorobutadiene							
4-chloro-m-cresol							
hexachlorocyclopentadiene							
2,4,6-trichlorophenol							
2-chloronaphthalene							
acenaphthylene							
dimethyl phthalate							
2,6-dinitrotoluene							
acenaphthene	↓						
2,4-dinitrophenol	50/1650						
2,4-dinitrotoluene	10/330						
4-nitrophenol	50/1650						
fluorene	10/330						
4-chlorophenylphenylether							
diethyl phthalate	↓						
4,6-dinitro-o-cresol	50/1650						
diphenylamine							
azobenzene	↓						
4-bromophenylphenylether	10/330						
hexachlorobenzene	10/330						
pentachlorophenol	50/1650						
phenanthrene	10/330						
anthracene							
dibutyl phthalate	↓						
fluoranthene	↓						



MDL
 H₂O/SOIL

- J - Estimated value.
- K - Actual value is known to be less than value given.
- L - Actual value is known to be greater than value given.
- U - Material was analyzed for but not detected. The number is the Minimum Detection Limit.
- NA - Not analyzed.
- 1/ - Tentative identification.
- 2/ - On NRDC List of Priority Pollutants.

MDL

STATE LABORATORY OF PUBLIC HEALTH
 DIVISION OF HEALTH SERVICES, N.C. DEPARTMENT OF HUMAN RESOURCES
 P.O. BOX 28047 - 306 N. WILMINGTON, ST., RALEIGH, N.C. 27611

ORGANIC CHEMICAL ANALYSIS

BASE/NEUTRAL AND ACID EXTRACTABLES	LAB NO	800478	800479	800480	800481	800482	800483
COMPOUND	FIELD #	3931	3932	3933	3934	3935	3936
	TYPE	(3)	(3)	(3)	(3)	(3)	(4)
	UNITS	µg/l µg/kg					
pyrene	10/330	u	u	u	u	u	u
benzidine	50/1650						
butyl benzyl phthalate	10/330						
benz(a)anthracene							
chrysene							
3,3-dichlorobenzidine	50/1650						
bis(2-ethylhexyl)phthalate	10/330						
di-n-octyl phthalate	10/330						
benzo(b)fluoranthene	50/1650						
benzo(k)fluoranthene							
benzo(a)pyrene							
indeno(1,2,3-cd)pyrene							
dibenzo(a,h)anthracene							
benzo(g,h,i)perylene							
aniline	50/1650	u	u	u	u	u	u
benzoic acid							
benzyl alcohol							
4-chloroaniline	10/330						
dibenzofuran							
2-methylnaphthalene							
2-methylphenol							
4-methylphenol							
2-nitroaniline	50/1650						
3-nitroaniline							
4-nitroaniline							
2,4,5-trichlorophenol							



MDL
 H₂O/SOIL

- J - Estimated value.
- K - Actual value is known to be less than value given.
- L - Actual value is known to be greater than value given.
- U - Material was analyzed for but not detected. The number is the Minimum Detection Limit.
- NA - Not analyzed.
- 1/ - Tentative identification.
- 2/ - On NRDC List of Priority Pollutants.

MDL



North Carolina Department of Human Resources
Division of Health Services
P.O. Box 2091 • Raleigh, North Carolina 27602-2091

James G. Martin, Governor
David T. Flaherty, Secretary

Ronald H. Levine, M.D., M.P.H.
State Health Director

18 February 1988

Ms. Susan Deihl
EPA NC CERCLA Project Officer
EPA Region IV Waste Division
345 Courtland Street, N.E.
Atlanta, GA 30365

Dear Ms. Deihl:

RE: Owens Illinois/Salisbury Box Plant NCD980557755
Summary Trip Report
Site Investigation, 17 February 1988

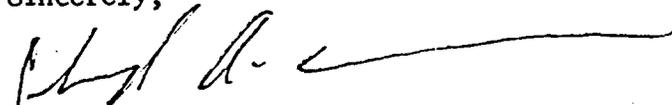
Owens Illinois is located on 38 acres of land on old US 29 North, Spencer, NC. The manufacturing operation at this facility consists of making and printing cardboard boxes. This operation has been on-going since 1954 when the site was owned and operated by National Container Corporation. In 1957, the site was bought by Owens Illinois/Salisbury Box Plant. Between 1974 and 1979, Owens-Illinois disposed of washup residue from flexographic ink printing into an unlined trench approximately 20' x 3' x 2 1/2' located on the site. In September 1982, the hazardous waste and contaminated soil was removed from the site and taken to SCA Services, Pinewood, SC for disposal. On January 1, 1988, Owens Illinois sold the site to Nekoosa Packaging, whose headquarters address is P.O. Box 1035, Toledo, Ohio 43666. Nekoosa Packaging manufactures cardboard boxes also.

On Wednesday, 17 February 1988, Cheryl McMorris and Grover Nicholson, NC Superfund Branch, NC DHR, conducted an investigation at the site. We arrived on the site at 10:05 and met with Mr. Perry Weaver, Maintenance Supervisor for the plant; we also met briefly with Mr. Jerry Kluttz, Production Supervisor for the plant. Mr. Weaver showed us the vicinity of the old trench that was used for the disposal of ink residues. We were met on the site by Mr. Jimmy Seagel of the Rowan County Health Department at 10:15.

Ms. Susan Deihl
18 February 1988
Page 2

Site sampling began at 11:15. Weather conditions were sunny, bright and comfortable (mid 60's). Surface and subsurface soil samples were collected from the trench area and northwest of the trench area. A sediment sample was collected from a drainage swell at the toe of a slope on the site. Sampling was completed at 13:09. At 15:00 we met with Ms. Hilda Palmer, Spencer Town Hall. From Ms. Palmer we collected a surface water distribution map for the Town of Spencer. We also collected a surface water distribution map for the Town of East Spencer, from Ms. Barbara Mallet, East Spencer Town Clerk.

Sincerely,



Cheryl A. McMorris, Environmental Chemist
Superfund Branch
Solid Waste Management Section

CAM/pb/0571b.3



North Carolina Department of Human Resources
Division of Health Services
P.O. Box 2091 • Raleigh, North Carolina 27602-2091

James G. Martin, Governor
David T. Flaherty, Secretary

Ronald H. Levine, M.D., M.P.H.
State Health Director

9 February 1988

Mr. Herbert L. Hawley
Rowan County Health Director
3100 Old Concord Road
Salisbury, NC 28144

COURIER 242A

Dear Mr. Hawley:

Re: Site Investigation
Owens-Illinois/Salisbury Box Plant
NCD980557755
February 17, 1988

The Superfund Branch of the Solid Waste Management Section will conduct a site investigation at Owens-Illinois/Salisbury Box Plant (NCD980557755) in Spencer on Wednesday, 17 February 1988. Cheryl McMorris, site investigation team leader, will contact Jimmy Seagle to coordinate on-site activities. Copies of the preliminary assessment and transmittal letter have been enclosed for your information.

If you have any questions, please do not hesitate to contact Cheryl McMorris or me at 733-2801.

Sincerely,

A handwritten signature in cursive script that reads "Lee Crosby".

Lee Crosby, Head
Superfund Branch
Solid Waste Management Section

LC/pc

cc: Cheryl McMorris

Enclosures

TRIP
NOTIFICATION
& AUTHORIZATION

TODAY'S DATE: February 5, 1988
PREPARED BY: Cheryl A. McMarris (Staff member filling out form)

SITE TRIP

DATE OF TRIP: February 7, 1988
If trip date changed or cancelled note below:
CHANGE OF DATE TO: _____ OR CANCELLED: _____

SITE NAME: Dwens-Illinois/Salisbury Box Plant
NCD#: NC0980557755
REASON FOR TRIP: Site Investigation
CITY: Spencer COUNTY: Rowan

If Overnight trip, Hotel staying at: _____
Telephone Number: _____

(Please list appropriate county health person to call to advise of trip)
ENVIRONMENTAL SUPERVISOR OR
HEALTH DIRECTOR TO CALL: Mr. Hebert L. Hawley TITLE: County Health Director
(Note if Dr., M.P., etc.)
Telephone Number: (704) 633-0411

Project Team Leader: Cheryl A. McMarris
Assistants: Grover Nicholson

AUTHORIZED BY: Lee Crosby
Superfund Unit Supervisor

form sent to Hebert Hawley

ATTACHMENT
TO NOTIFICATION FORM: 4 copies each of PRELIMINARY ASSESSMENT FORM (1st page only)
NOTIFICATION FORM, & EPA TRANSMITTAL LETTER

- Staff Notification Procedure: (Use black ink or Typewriter Only)
1. Above form goes to Data Management Coordinator (DMC) 10 days prior to trip
 2. If date of trip changes - note changed date, or mark "X" if cancelled
 3. DAY AFTER TRIP, submit to Lee Crosby a short paragraph on site trip.

NOTES:
HEALTH DEPT. OFFICIAL CONTACTED: _____
BACK UP LETTER REQUIRED: Yes ___ No ___

1/18/88

7 October 1987

TO: File

From: Mary Giguere *MG*

RE: Owens-Ill/Salisbury Box Plt. NCD980557755

All samples collected during a site investigation will be preserved by storing them on ice. Water samples for metal and volatile organics analyses should also be preserved with acid unless they contain visible sediment.

The metals samples should be preserved with nitric acid to a pH of less than 2 but greater than 1. To do this start by adding 3 mls of nitric acid to the sampling container. After collecting the sample, check the pH, if more acid is needed add it and note how much was added. Put a check mark on the cap of the metal samples that have been preserved with 3 mls of acid. If more than 3 mls of acid have been added indicate the total amount of acid added on the sample container top.

For the VOA samples 4 drops of hydrochloric acid should be added before the sample is collected. Collect the sample as usual.

Goggles and gloves will be worn while measuring acids and collecting samples. Pasteur pipets will be used for measuring the hydrochloric acid. Graduated pipets will be used for nitric acid. Pipets will be rinsed and then disposed of.

SITE SAFETY PLAN

A. GENERAL INFORMATION

Site Name Owens-III/Salisbury Box Pkt EPA ID # NC0 980 557 755
Location old US 28 N Date _____
Spencer, NC

Purpose of Visit _____ PA X SI _____ Other _____

Proposed Date of Inspection 10/20/87 2-17-88

Date of Briefing 10/15/87

Priority Ranking X Low _____ Medium _____ High _____

Site Investigation Team

Personnel

Responsibilities

Graver Nicholson team leader, sampling
Cheryl McMorris sampling

PLAN PREPARATION:

Prepared By Mary Maguire CH

Reviewed By Lee Crosby

B. SITE/WASTE CHARACTERISTICS

Waste Type(s) _____ Liquid X Solid X Sludge _____ Gas _____

Characteristics _____ Corrosive _____ Ignitable _____ Radioactive _____
_____ Volatile X Toxic _____ Reactive _____ Other _____

List Known or Suspected Hazards (physical, chemical biological or radioactive) on Site and their toxicological effects. Also, if known, list chemical amounts

HAZARD

EFFECT(S)

Lead chromate
0.05 mg/m³ - TLV

The TLV for lead chromate is given ^{years} by Chromate and is 0.05 mg/m³ chromates are a multiple of human health data sheets are also included for solvents commonly used in the printing ink industry

organic solvents

Facility Description: Size _____ Buildings one

Disposal Methods Being Investigated trench disposal

Unusual Features on Site (dike integrity, power lines, terrain etc.):
none known

History of the Site: The facility makes & prints cardboard boxes this operation has been ongoing since before 1950 when the site was owned & operated by National Container Corp. From 1974 to 1979 flexographic ink washup residue was intermittently disposed of in a trench ~20 ft by 3 by 2 1/2 ft deep. In Sept. 1982 7 cubic yds of soil & waste (12% & 88%) was removed from the site. No post removal sampling was done.

C. HAZARD EVALUATION

Previous sampling on this site has shown lead & chromium contamination. No solvent contamination has been found. Removal of waste product & soil was done in 1982. Sampling is to consist of surface & subsurface soil in the area of the trench. This sampling should not pose a health hazard from inhalation because ^{been} no drums were found in previous sampling. The site can be sampled in level D ^{with up to level C if necessary} monitoring. The HNU and respirators will be taken. The HNU will be used to monitor while augering. If levels > 50ppm and < 100ppm are detected respirators with OC cartridges will be worn. If levels > 100ppm are detected the site will be vacated. Tyvek should be used. WORK PLAN INSTRUCTION when augering. Foots will be worn when

touring and sampling the site.
Map or Sketch Attached? no
Perimeter Identified? no
Command Post Identified? no
Zones of Contamination Identified? no

Personal Protective Equipment
Level of Protection A B C X D

Modifications goggles & gloves will be worn when preparing and collecting acid preserved samples.

Surveillance Equipment:

- | | |
|--|--------------------------------|
| <input checked="" type="checkbox"/> H Nu | _____ Detector Tubes and Pumps |
| _____ Explosimeter | _____ O2 Meter |
| _____ TLD | _____ (Radiation Monitor) |

Decontamination Procedures

_____ Level A Segregated equipment drop, boot cover and glove wash, boot cover and glove rinse, tape removal, suit and hard hat removal, SCBA backpack removal, inner glove wash, inner glove removal, inner clothing removal, field wash, redress

_____ Level B Segregated equipment drop, boot cover and glove wash, boot cover and glove rinse, tape removal, boot cover removal, outer glove removal, suit/safety removal, SCBA backpack removal, inner glove wash, inner glove rinse, facepiece removal, inner glove removal, inner clothing removal, field wash, redress.

Level C respirator wash, respirator removal, suit wash (if needed), suit removal, boot wash, boot removal, and glove removal.

Level D Boot wash and rinse and boot removal.

Modifications _____

Work Schedule/ Limitations Sampling is to consist of drinking water wells, surface and subsurface soil samples.

EMERGENCY PRECAUTIONS

Route of Exposure

eyes

skin

inhalation

ingestion

First Aid

irrigate immediately

wash with water immediately

Get out of area and seek medical attention promptly.

Hospital (Address and Phone Number)

Rowan Memorial Hospital

Emergency Transportation Systems (Phone Numbers)

Fire Use 911

Ambulance Use 911

Rescue Squad Use 911

Emergency Route to Hospital Take US 70.3 BUS 29 southwest into Salisbury
It becomes Salisbury Ave. then Main St. Take a left onto Cemetery and
bear right onto Mocksville Hospital will be on the left.

PREVAILING WEATHER CONDITIONS AND FORECAST _____

EQUIPMENT CHECKLIST

- | | | | |
|-------------------------------------|---------------------------|-------------------------------------|------------------------|
| <input type="checkbox"/> | Air purifying respirator | <input checked="" type="checkbox"/> | First Aid Kit |
| <input type="checkbox"/> | Cartridges for respirator | <input checked="" type="checkbox"/> | 3 gal. Distilled H2O |
| <input type="checkbox"/> | 3M 8710 Respirator | <input checked="" type="checkbox"/> | Personal Protective |
| <input type="checkbox"/> | O2 Indicator | | Clothing |
| <input type="checkbox"/> | Detector Tube & Pump | <input checked="" type="checkbox"/> | (Boots) or Boot Covers |
| <input type="checkbox"/> | Eye Wash Unit | <input checked="" type="checkbox"/> | Coveralls (tyvek) |
| <input checked="" type="checkbox"/> | H Nu | <input checked="" type="checkbox"/> | Eye Protection |
| <input type="checkbox"/> | pH Meter | <input checked="" type="checkbox"/> | Hard Hat |
| <input type="checkbox"/> | Explosimeter | <input checked="" type="checkbox"/> | Decontamination |
| <input type="checkbox"/> | Radioactive Monitor | | Materials. |

Poison Control Center - State Coordinator

Duke University Medical Center

Telephone: 1-800-672-1697

Box 3024

Durham, NC 27710

ASHEVILLE
704-255-4490

Western NC Poison
Control Center
Memorial Mission Hosp.
509 Biltmore Ave. 28801

HENDERSONVILLE
704-693-6522
Ext. 555, 556

Margaret R. Pardee
Memorial Hospital
Fleming St., 28739

CHARLOTTE
704-379-5827

Mercy Hospital
2001 Vail Ave, 28207

HICKORY
704-322-6649

Catawba Mem. Hosp.
Fairgrove Chur. Rd 28601

DURHAM
1-800-672-1697

Duke Univ Medical Center
Box 3007, 27710

JACKSONVILLE
919-577-2555

Onslow Mem. Hospital
Western Blvd. 28540

GREENSBORO
919-379-4105

Moses Cone Hospital
1200 N. Elm St., 27420

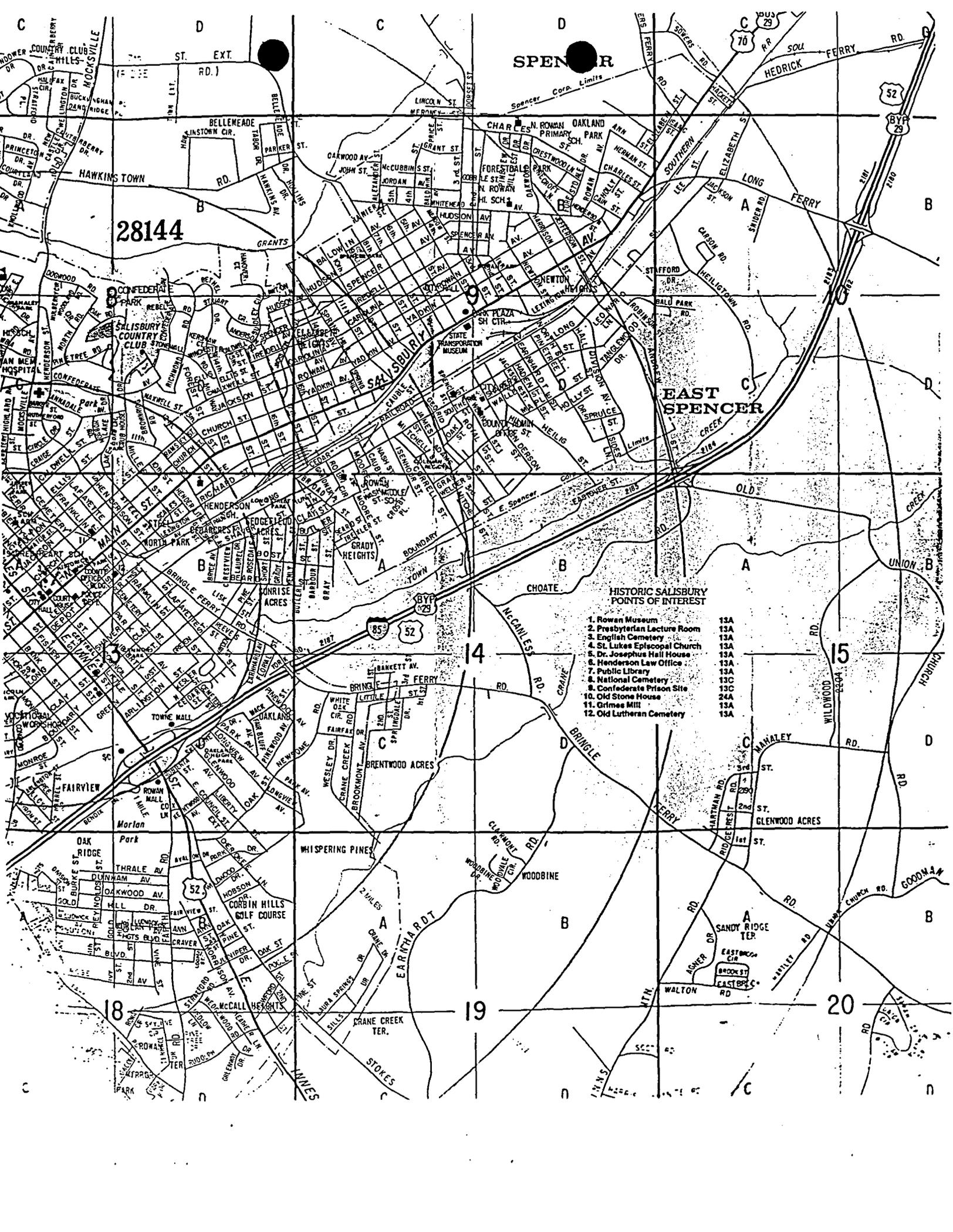
WILMINGTON
919-343-7046

New Hanover Mem. Hospital
2131 S. 17th St, 28401

1-800-722-2222

CERCLA/MG/7-85/Revised 5-87

Form 1



28144

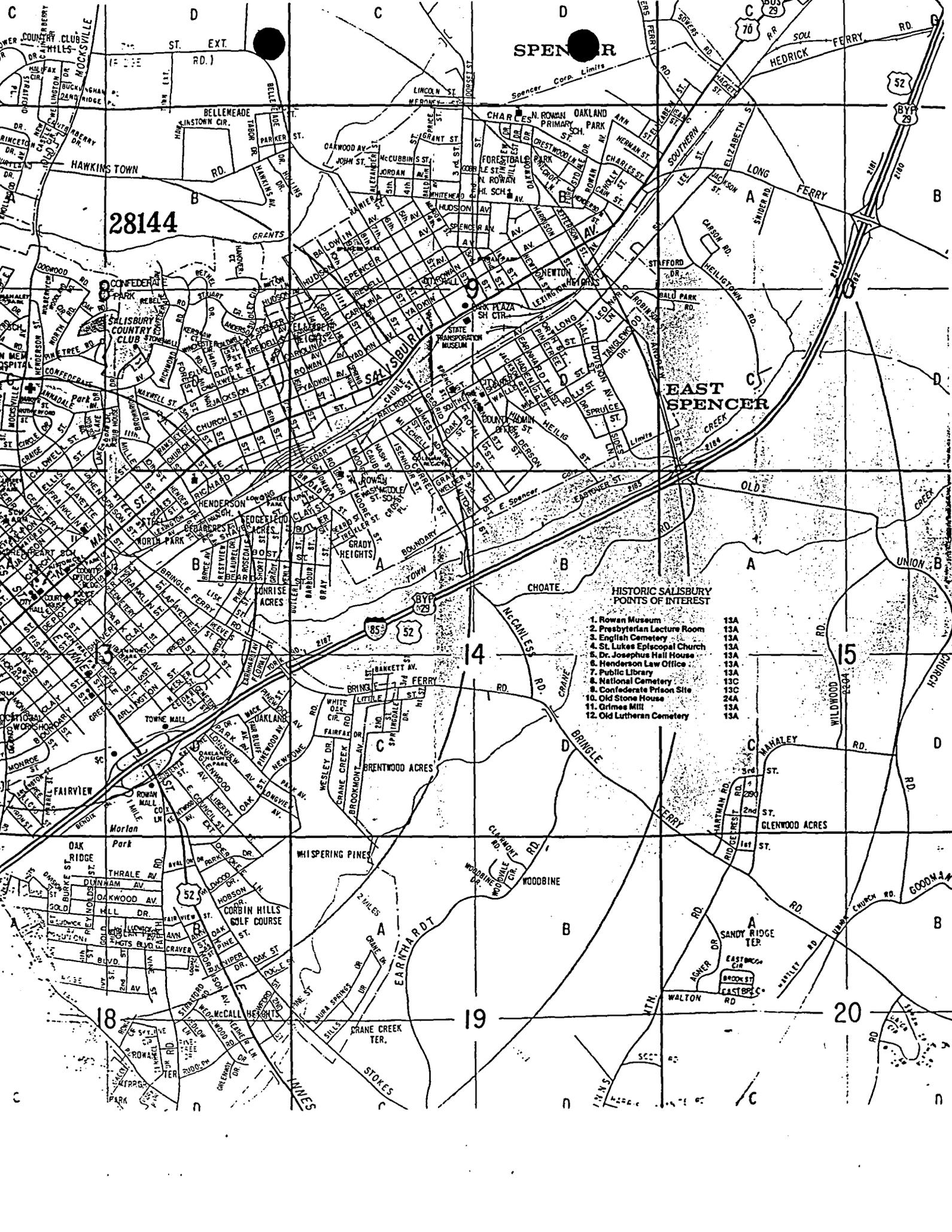
SPENCER

EAST SPENCER

HISTORIC SALISBURY POINTS OF INTEREST

1. Rowan Museum
2. Presbyterian Lecture Room
3. English Cemetery
4. St. Luke's Episcopal Church
5. Dr. Josephus Hall House
6. Henderson Law Office
7. Public Library
8. National Cemetery
9. Confederate Prison Site
10. Old Stone House
11. Grimes Mill
12. Old Lutheran Cemetery

- 13A
- 13A
- 13A
- 13A
- 13A
- 13A
- 13C
- 13C
- 24A
- 13A
- 13A



HAZARDOUS SUBSTANCE INFORMATION FORM

Chemical Name: Lead, inorganic dusts

I. PHYSICAL/CHEMICAL PROPERTIES

	Reference
Chemical Formula <u>Pb</u>	<u>1</u>
Natural Physical State at 25°C <u>solid</u>	<u>1</u>
Vapor Pressure <u>N/A</u> mm Hg at 20°C	
(Pure Lead)	
Melting Point <u>600</u> °F/°C Fuming Point <u>900</u> °F/°C	
Flash Point (open or closed cup) <u>N/A</u> °C/°F	
Solubility - H ₂ O <u>N/A</u>	
Other <u>N/A</u>	

Physical Features: (odor, color, etc.) appearance and odor vary depending upon specific compound.

II. TOXICOLOGICAL DATA

Standards: .15 mg/m TLV 0.05 mg/m PEL N/A IDLH

Routes of Exposure: inhalation and ingestion

Acute/Chronic Symptoms: Acute: lassitude, pallor, constipation, abd. pain, gingival gum line, tremors. Target organs: GI tract, CNS, kidneys, blood.

First Aid: Eyes: irrigate immediately, Skin: soap & water wash promptly.
Inhalation: fresh air & artificial resp., Ingestion: medical attn. immed.

Chemical Name: Lead, inorganic dusts

III. HAZARDOUS CHARACTERISTICS

Reference

A. Combustibility Yes No
Toxic by-products _____

B. Flammability LEL N/A UEL _____

C. Reactivity Hazard None

D. Corrosivity Hazard yes/no pH: _____

Neutralizing agent: _____

E. Radioactive Hazard		Exposure Rate	
Background	yes/no	_____	_____
Alpha particles	yes/no	_____	_____
Beta particles	yes/no	_____	_____
Gamma radiation	yes/no	_____	_____

IV. REFERENCES

The Merck Index, 10th Edition, 1985.
Pocket Guide to Chemical Hazards, NIOSH, 1985.

Chemical Name: Chromium (VI), insoluble salts

III. HAZARDOUS CHARACTERISTICS

Reference

A. Combustibility Yes No X

Toxic by-products

B. Flammability LEL N/A UEL

C. Reactivity Hazard strong oxides

 2

D. Corrosivity Hazard yes/no pH:

Neutralizing agent:

E. Radioactive Hazard Exposure Rate

Background yes/no

Alpha particles yes/no

Beta particles yes/no

Gamma radiation yes/no

IV. REFERENCES

The Merck Index, 10th Edition, 1983.

Pocket Guide to Chemical Hazards, NIOSH, 1985.

Documentation of the TLV's, 4th Edition, 1984.

HAZARDOUS SUBSTANCE INFORMATION FORM

Chemical Name: VM & P Naphtha (Ligroin)

I. PHYSICAL/CHEMICAL PROPERTIES

	Reference
Chemical Formula <u>typical composition is:</u>	<u>1</u>
<u>paraffins 55.4, naphthens 30.3, alkyl benzene 11.7</u>	
<u>dicycloparaffins 2.4, benzene (less than) 0.1</u>	
Natural Physical State at 25°C <u>liquid</u>	<u>1,2</u>
Vapor Pressure <u>--</u> mm Hg at 20°C	
Melting Point _____ °F/°C Boiling Point <u>118 - 179</u> °E/°C	
Flash Point (open or closed cup) <u>57</u> °C/°F	
Solubility - H ₂ O <u>insoluble</u>	
Other <u>organic solvents</u>	

Physical Features: (odor, color, etc.) clear, mobile, flammable liquid
odor of kerosene or gasoline.

II. TOXICOLOGICAL DATA

Standards: 300 ppm TLV _____ PEL _____ IDLH _____

Routes of Exposure: inhalation

Acute/Chronic Symptoms: upper resp. tract irritation at 800 ppm
eye irritation at 88 ppm.

First Aid: eyes: irrigate immediately, skin: soap and water wash,
inhalation: fresh air and artificial resp., ingestion: medical attention.

Chemical Name: VM & P Naphtha

III. HAZARDOUS CHARACTERISTICS

Reference

A. Combustibility Yes X No _____
Toxic by-products No

B. Flammability LEL 1.2% UEL 6.0%

1

C. Reactivity Hazard _____

D. Corrosivity Hazard yes/no pH: _____

Neutralizing agent: _____

E. Radioactive Hazard	Exposure Rate	
Background yes/no	_____	_____
Alpha particles yes/no	_____	_____
Beta particles yes/no	_____	_____
Gamma radiation yes/no	_____	_____

IV. REFERENCES

Documentation of the TLV, 4th Edition, 1980.
The Merck Index, 10th Edition, 1983.

HAZARDOUS SUBSTANCE INFORMATION FORM

Chemical Name: Xylene, O, M & P (Dimethyl benzene)

I. PHYSICAL/CHEMICAL PROPERTIES

	Reference
Chemical Formula <u>C8 H10</u>	<u>1,2,3,4</u>
Natural Physical State at 25°C <u>liquid</u>	<u>1,2,3</u>
Vapor Pressure <u>7 - 9</u> mm Hg at 20°C	<u>3</u>
Melting Point <u>13 - 14</u> °F/°C Boiling Point <u>137 - 140</u> °F/°C	<u>1,2,3</u>
Flash Point (open or closed cup) <u>90/84/81</u> °C/°F	<u>1,2,3,4</u>
Solubility - H ₂ O <u>insoluble</u>	<u>1,2,3</u>
Other <u>soluble in alcohol, ether and most</u>	<u>1,2,3</u>
<u>other organic solvents.</u>	

Physical Features: (odor, color, etc.) colorless liquid with aromatic/ benzene odor. Common solvent for paints and coatings, especially alkyd resin type.

II. TOXICOLOGICAL DATA

Standards: 100 TLV 100 PEL 10,000 IDLH 4

Routes of Exposure: inhalation

Acute/Chronic Symptoms: headache, fatigue, dizziness, lassitude, narcotic effects in high concentrations (2,3). Chronic effects not well defined (1).

First Aid: eyes: irrigate immed., skin: soap and water wash immed., inhalation: fresh air and artificial resp., ingestion: medical attention.

Chemical Name: Xylene, O, M, & P

III. HAZARDOUS CHARACTERISTICS

Reference

A. Combustibility Yes X No _____

1,2,3,4

Toxic by-products _____

B. Flammability LEL 1.4% UEL 6.7%

2

C. Reactivity Hazard strong oxidizers

4

D. Corrosivity Hazard yes/no pH: _____

Neutralizing agent: _____

E. Radioactive Hazard

Exposure Rate

Background yes/no

Alpha particles yes/no

Beta particles yes/no

Gamma radiation yes/no

IV. REFERENCES

The Merck Index, 10th Edition, 1983.

NFPA, Fire Protection Guide on Hazardous Materials,

8th Edition, 1984.

Documentation of the TLV, 4th Edition, 1980.

NIOSH Pocket Guide to Chemical Hazards, 1985.

HAZARDOUS SUBSTANCE INFORMATION FORM

Chemical Name: Toluene (Methyl benzene, toluol)

I. PHYSICAL/CHEMICAL PROPERTIES

	Reference
Chemical Formula <u>C₇H₈</u>	<u>1,2,3,4</u>
Natural Physical State at 25°C <u>liquid</u>	<u>1,2,3,4</u>
Vapor Pressure <u>2</u> mm Hg at 20°C	<u>4</u>
Melting Point <u>- 95</u> °F/°C Boiling Point <u>110.6</u> °F/°C	<u>1,3,4</u>
Flash Point (open or <u>closed cup</u>) <u>40</u> °C/°F	<u>1,2,3,4</u>
Solubility - H ₂ O <u>slightly sol.</u>	<u>1,3,4</u>
Other <u>miscible with alcohol, chloroform, ether,</u> <u>acetone, glacial acetic acid, carbon disulfide</u>	<u>1,3,4</u>

Physical Features: (odor, color, etc.) colorless liquid with an aromatic odor, IP 8.82 eV, derived from coal tar oil or petroleum

II. TOXICOLOGICAL DATA

Standards: 100 TLV 200 PEL 2000 IDLH 4

Routes of Exposure: inhalation

Acute/Chronic Symptoms: Narcotic in high concentrations, headache, lassitude, and nausea. Chronic: anemia and dermatitis.

First Aid: skin: soap and water wash immed., eye: irrigate immed.
inhalation: fresh air and artificial resp., ingestion: medical attention (4).

Chemical Name: Toluene

III. HAZARDOUS CHARACTERISTICS

Reference

A. Combustibility Yes X No _____
Toxic by-products _____

4

B. Flammability LEL 1.0% UEL 7.0%

4

C. Reactivity Hazard strong oxidizers

3

D. Corrosivity Hazard yes/no pH: _____

Neutralizing agent: _____

E. Radioactive Hazard	Exposure Rate	
Background yes/no	_____	_____
Alpha particles yes/no	_____	_____
Beta particles yes/no	_____	_____
Gamma radiation yes/no	_____	_____

IV. REFERENCES

The Merck Index, 10th Edition, 1983.
Documentation of the TLV, 4th Edition, 1980.
NIOSH Pocket Guide for Chemical Hazards, 1985.
NFPA, Protection Guide on Hazardous Materials, 8th Edition
8th Edition, 1984.

HAZARDOUS SUBSTANCE INFORMATION FORM

Chemical Name: Methyl Ethyl Ketone (2 Butanone)

I. PHYSICAL/CHEMICAL PROPERTIES

	Reference
Chemical Formula <u>C₄ H₈ O</u>	<u>1,2,3</u>
Natural Physical State at 25°C <u>liquid</u>	<u>1,2,3</u>
Vapor Pressure <u>70.6</u> mm Hg at 20°C	<u>2,3</u>
Melting Point _____ °F/°C Boiling Point <u>80</u> °F/°C	_____
Flash Point (open or closed cup) <u>35</u> °C/°F	<u>1,2</u>
- Solubility - H ₂ O <u>27%</u>	<u>1,3</u>
Other <u>common organic solvents</u>	<u>2</u>

Physical Features: (odor, color, etc.) clear, colorless liquid with acetone-like odor, odor detection 10 ppm IP - 9.48 eV

II. TOXICOLOGICAL DATA

Standards: 200 ppm TLV 200 ppm PEL 3000 ppm IDLH 3

Routes of Exposure: inhalation

Acute/Chronic Symptoms: irritation of eyes, nose and throat at approx. 200 ppm

First Aid: eyes: irrigate immediately, skin: soap and water wash, inhalation: fresh air & artificial resp., ingestion: medical attention.

Chemical Name: Methyl Ethyl Ketone

III. HAZARDOUS CHARACTERISTICS

Reference

A. Combustibility Yes X No _____
Toxic by-products _____

2

B. Flammability LEL 12% UEL 20%

2

C. Reactivity Hazard very strong oxidizers

3

D. Corrosivity Hazard yes/no pH: _____

Neutralizing agent: _____

E. Radioactive Hazard	Exposure Rate
Background yes/ <u>no</u>	_____
Alpha particles yes/ <u>no</u>	_____
Beta particles yes/ <u>no</u>	_____
Gamma radiation yes/ <u>no</u>	_____

IV. REFERENCES

The Merck Index
Documentation of the TLV's
NIOSH Pocket Guide to Chemical Hazards

HAZARDOUS SUBSTANCE INFORMATION FORM

Chemical Name: N-propyl acetate

I. PHYSICAL/CHEMICAL PROPERTIES

	Reference
Chemical Formula <u>CH₃COOC₃H₇</u>	<u>1, 2, 3</u>
Natural Physical State at 25°C <u>liquid</u>	<u>1, 2, 3</u>
Vapor Pressure <u>25</u> mm Hg at 20°C	<u>3</u>
Melting Point <u>-92.5 °F/°C</u> Boiling Point <u>101.6 °F/°C</u>	<u>1, 2, 3</u>
Flash Point (open or closed cup) <u>58 °C/°F</u>	<u>1, 2, 3</u>
Solubility - H ₂ O <u>2%</u>	<u>1, 2, 3</u>
Other <u>miscible with most organic solvents</u>	<u>1, 2</u>

Physical Features: (odor, color, etc.) colorless liquid with a mild fruity odor like pears
I.P. - 10/07eV

II. TOXICOLOGICAL DATA

Standards: 200ppm TLV 200ppm PEL 8000ppm IDLH 3

Routes of Exposure: Inhalation

Acute/Chronic Symptoms: Irritation of the eyes, nose, throat; nausea and dizziness

First Aid: For eye irritation, flush with water; for inhalation, fresh air and artificial respiration; prompt medical attention.

HAZARDOUS SUBSTANCE INFORMATION FORM

Chemical Name: Isobutyl Acrylate

I. PHYSICAL/CHEMICAL PROPERTIES

	Reference
Chemical Formula <u>CH₂COOCH(CH₃)₂</u>	<u>1, 2, 3</u>
Natural Physical State at 25°C <u>liquid</u>	<u>1, 2, 3</u>
Vapor Pressure <u>43</u> mm Hg at <u>20°C</u>	<u>2, 3</u>
Melting Point <u>-92</u> °F/°C Boiling Point <u>89</u> °F/°C	<u>2, 3</u>
Flash Point (open or closed cup) <u>36</u> °C/°F	<u>1</u>
Solubility - H ₂ O <u>2.9%</u>	<u>2</u>
Other <u>miscible with most organic solvents</u>	<u>2</u>

Physical Features: (odor, color, etc.) colorless liquid with a
fruity odor I.P. -9.98eV

II. TOXICOLOGICAL DATA

Standards: 250 ppm TLV 250 ppm PEL 16,000 ppm IDLH 3

Routes of Exposure: Inhalation

Acute/Chronic Symptoms: irritation of eyes, nose & throat, mucous

First Aid: Eye: Irrigate immediately. Skin: Wash promptly;
Inhalation: Fresh air and artificial respiration. Ingestion: prompt
medical attention.

11 March 1987

TO: File

FROM: Cheryl A. McMorris CAM

RE: Telephone conversation with Ronnie Eidson of Duke Power Plant.

I spoke with Mr. Eidson concerning the intake point Duke Power has on the Yadkin River. He informed me that water from the intake is used for plant processes and drinking water. The water that is treated for drinking water serves 106 people, all Duke Power employees. Mr. Eidson helped me to locate the intake point which is 1 mile downstream of the I-85 bridge that crosses the Yadkin River.

CAM/tb/0193b

11 March 1987

TO: File

FROM: Cheryl A. McMorris CAM

RE: Telephone conversation with Barbara Remeta of North Carolina
Finishing Company (704) 636-3541.

I spoke with Ms. Remeta concerning the intake the above mentioned facility has on the Yadkin River. Ms. Remeta informed me that the water from the intake is used for both plant processes and drinking water. The facility has a treatment plant which treats the water from the Yadkin River for drinking water. The treated water serves company personnel only; about 500 employees. According to Ms. Remeta, residents of Yadkin used to obtain their drinking water from the plant, however the company has ceased the service. Yadkin residents now use private wells as their source of drinking water. Ms. Remeta also helped me to locate the intake point on the topo map. The intake is upstream of the Owens-Illinois facility. She then gave me the name and number of a contact person at Duke Power, Johnny Green (704) 637-2323 ext. 440. Duke Power also has an intake on the Yadkin River. Their intake is downstream of the NC Finishing Company's intake.

CAM/tb/0193b

10 March 1987

TO: File

FROM: Cheryl A. McMorris CAM

RE: Telephone conversation with Donald Walser, Manager, Town of Spencer
✓ Water Supply (704) 633-2231.

↑

I spoke with Mr. Walser concerning drinking water within a three mile radius of the Owens-Illinois site. He informed me that Spencer and East Spencer located within the 3-mile radius buy their drinking water from the Town of Salisbury. They then resell the water to their residents. Distribution lines are only inside of the city's limits. The lines extend as far north as the Owens-Illinois site, which is where they stop. Residents outside Spencer and East Spencer, within a three mile radius of the site, obtain drinking water from private wells.

CAM/tb/0193b

10 March 1987

TO: File

FROM: Cheryl A. McMorris CAM

RE: Telephone conversation with Peter Stone of Davidson Water Inc.
(704) 787-5800.

I spoke with Peter Stone concerning drinking water for the Boone Township of Davidson County, which is within three miles of the Owens Illinois site. Mr. Stone informed me that the Township uses surface water as its drinking water source. Davidson County has extended distribution lines throughout most of the county, and the Township is inside the area of service.

CAM/tb/0193b

RCRA/NPL POLICY QUESTIONNAIRE FOR INITIAL SCREENING

Site Name Owens-Illinois Salisbury
 City _____ State _____
 Facility I.D. Number ICD 0980552755
 Type of Facility: Generator _____ Transporter _____ TSD _____

RCRA APPLICABILITY

yes no

- Does the facility have RCRA interim status? X
- Did the facility ever have RCRA interim status? X
- Does the facility have a final or post-closure permit? If so, date issued _____ X
- Is the facility a non-notifier that has been identified by States or EPA? X
- Is the facility a known or possible protective filer? X

STOP HERE IF ALL ANSWERS TO QUESTIONS IN SECTION I ARE NO

II. FINANCIAL STATUS

Is the facility owned by an entity that has filed for bankruptcy under federal laws (Chapter 7 or 11) or State laws?

If yes, what has it filed under?
 Chapter 7 _____ Chapter 11 _____ Other _____

III. ENFORCEMENT

RCRA Status

Has the facility lost authorization to operate via LOIS, 3005(c) permit denial, 3008(h) IS termination, 3005(d) permit revocation?

Has the facility's Interim Status been terminated via another mechanism (i.e. administrative termination)?

CERCLA Status

What CERCLA financed remedial or removal activities have been initiated at the site? (RI/FS, RD/RA, O&M, forward planning, and removal; does not include enforcement or PA/SI activities)

Enforcement Status

In general, would you characterize the facility as demonstrating an unwillingness to undertake corrective action based on prior State, CERCLA or RCRA actions?

YES NO

If yes, please describe and cite the authorities exercised.

Is the owner/operator a party to any enforcement action at the site? _____

If not, why not?

Are any PRPs (including owner/operators) undertaking remedial studies or action in response to CERCLA enforcement authorities? What is the extent/type of work that has been completed (RI/FS, etc.) and who (generators, owner/operator, etc.) is conducting the work?



North Carolina Department of Human Resources
Division of Health Services
P.O. Box 2091 • Raleigh, North Carolina 27602-2091

James G. Martin, Governor
Phillip J. Kirk, Jr., Secretary

Ronald H. Levine, M.D., M.P.H.
State Health Director

16 September 1985

Ms. Denise Bland
EPA NC CERCLA Project Officer
Air and Hazardous Material Division
345 Courtland Street, N.E.
Atlanta, GA 30365

SUBJECT: Final Preliminary Assessment Report
Owens-Illinois, Inc. NCD 980557755
Salisbury Box Plant
Old US 29 North
Spencer, NC 28144

Dear Ms. Bland:

Enclosed please find the Preliminary Assessment report for the subject site. This priority is based on our review of available data, and, sometimes, on conversations and correspondence with the site owner and operator. We have concluded that:

- A. The manufacturing operation at this facility consists of making and printing cardboard boxes. This operation has been on-going since before 1950 when the site was owned and operated by National Container Corporation and after 1950 when the site was owned and operated by Owens-Illinois. Apparently, the disposal of washup residue from flexographic ink printing occurred from 1974 until 1979. A trench behind the facility was used as a disposal pit at various times during these years.
- B. The hazardous waste disposed of in the trench was flexographic ink washup residues which contained lead and chromium. EP toxicity tests on the material indicated the extraction of lead at hazardous concentrations. The trench was about 20 feet by 3 feet by 2 1/2 feet deep. In September 1982, the hazardous wastes and contaminated soil was removed from the site and taken to SCA Services, Pinewood, SC for disposal. About 7 cubic yards of material was removed. It was estimated that 12% of this was actual waste and 88% was soil. No post-cleanup soil or groundwater sampling was done. Soil discoloration was used as an indicator of contamination extent.

Ms. Denise Bland
Page 2

- C. The clean-up action appears to have properly removed the hazard from the site. However, groundwater was encountered during excavation and no post-cleanup sampling was done. Soil and groundwater in the vicinity of the site may be contaminated.
- D. Groundwater is the only logical route for movement of contamination off-site.
- E. The site lies about 1 mile from downtown Spencer. The immediate area is relatively sparsely populated, although some nearby residences may use groundwater as a water supply. There are no known wildlife refuges nearby.
- F. The remedial action already taken at the site appears to be sufficient. However, no post-cleanup sampling was done and contamination may still exist in the soil and groundwater. This site needs to be inspected as time is available to ensure no contamination exists in the soil or groundwater. A Low priority for inspection is assigned.
- G. References are listed on EPA Form 2070-12.

On 13 September 1985, this Preliminary Assessment was reviewed by CERCLA Unit personnel and by Faye Sweat from the North Carolina Department of Natural Resources and Community Development, Division of Environmental Management.

If you have any questions, please call me at (919) 733-2178.

Sincerely,



Grover Nicholson, Geologist
Solid and Hazardous Waste Management Branch
Environmental Health Section

GN/tb/0210b



**POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT**

I. IDENTIFICATION

01 STATE NC	02 SITE NUMBER D980557755
----------------	------------------------------

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site) Owens-Illinois, Inc. Salisbury Box Plt.		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER Old US 29 North			
03 CITY Spencer	04 STATE NC	05 ZIP CODE 28144	06 COUNTY Rowan	07 COUNTY CODE 080	08 CONG. DIST. 08
09 COORDINATES LATITUDE 35 42 20		LONGITUDE 080 24 41			

10 DIRECTIONS TO SITE (Starting from nearest public road)
The site is located just behind the Owens-Illinois Inc. Box Plant on US 29 about 1. mile north of downtown Spencer, NC.

III. RESPONSIBLE PARTIES

01 OWNER (if known) Owens-Illinois, Inc. Forest Products Div.		02 STREET (Business, mailing, residential) P.O. Box 1035			
03 CITY Toledo	04 STATE OH	05 ZIP CODE 43666	06 TELEPHONE NUMBER (419) 247-5027		
07 OPERATOR (if known and different from owner) Owens-Illinois, Inc. Salisbury Box Plt.		08 STREET (Business, mailing, residential) Old US 29 North			
09 CITY Spencer	10 STATE NC	11 ZIP CODE 28144	12 TELEPHONE NUMBER (704) 633-3611		

13 TYPE OF OWNERSHIP (Check one)
 A. PRIVATE B. FEDERAL: _____ (Agency name) C. STATE D. COUNTY E. MUNICIPAL
 F. OTHER: _____ (Specify) G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)
 A. RCRA 3001 DATE RECEIVED: ____/____/____ MONTH DAY YEAR B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: 10 20 81 MONTH DAY YEAR C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION
 YES DATE 03 / 31 / 82 MONTH DAY YEAR NO
 BY (Check all that apply)
 A. EPA B. EPA CONTRACTOR C. STATE D. OTHER CONTRACTOR
 E. LOCAL HEALTH OFFICIAL F. OTHER: _____ (Specify)
 CONTRACTOR NAME(S): _____

02 SITE STATUS (Check one)
 A. ACTIVE B. INACTIVE C. UNKNOWN

03 YEARS OF OPERATION
 A. BEGINNING YEAR: 1974 1979 ENDING YEAR B. UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED
Lead and chromium from flexographic ink washup residues.

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION
Soil and groundwater contamination may have resulted from burial of these residues in a trench about 20' x 3' x 2½' deep. The material was removed in September of 1982 and taken to SCA services for disposal.

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)
 A. HIGH (Inspection required promptly) B. MEDIUM (Inspection required) C. LOW (Inspection on time available basis) D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT Garry T. Griffith, Manager	02 OF (Agency/Organization) Owens-Illinois, Inc. Environmental Protection Programs		03 TELEPHONE NUMBER (419) 247-5027
04 PERSON RESPONSIBLE FOR ASSESSMENT Grover Nicholson	05 AGENCY NC DHR/DHS	06 ORGANIZATION SHW Mgmt. Br.	07 TELEPHONE NUMBER (919) 733-2178
		08 DATE <u>09 / 10 / 85</u> MONTH DAY YEAR	



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

I. IDENTIFICATION
01 STATE: NC 02 SITE NUMBER: D980557755

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 A. GROUNDWATER CONTAMINATION 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
03 POPULATION POTENTIALLY AFFECTED: Unknown 04 NARRATIVE DESCRIPTION

Possible lead contamination from buried ink residues.

01 B. SURFACE WATER CONTAMINATION 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

Not likely.

01 C. CONTAMINATION OF AIR 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

Not likely.

01 D. FIRE/EXPLOSIVE CONDITIONS 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

None.

01 E. DIRECT CONTACT 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

Not likely.

01 F. CONTAMINATION OF SOIL OBSERVED (DATE: _____) POTENTIAL ALLEGED
03 AREA POTENTIALLY AFFECTED: < 1/4 04 NARRATIVE DESCRIPTION
(Acres)

Possible lead contamination from buried ink residues.

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

Unknown.

01 H. WORKER EXPOSURE/INJURY 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

Not likely.

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

Not likely.



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE NC 02 SITE NUMBER D980557755

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 J. DAMAGE TO FLORA 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
04 NARRATIVE DESCRIPTION

Not likely.

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

Not likely.

01 L. CONTAMINATION OF FOOD CHAIN 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
04 NARRATIVE DESCRIPTION

Not likely.

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

None.

01 N. DAMAGE TO OFFSITE PROPERTY 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
04 NARRATIVE DESCRIPTION

Not likely.

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

None noted.

01 P. ILLEGAL/UNAUTHORIZED DUMPING 02 OBSERVED (DATE: _____) POTENTIAL ALLEGED
04 NARRATIVE DESCRIPTION

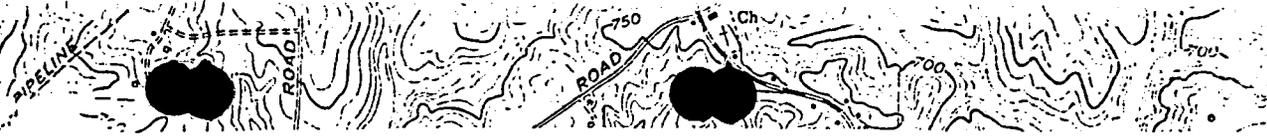
None.

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

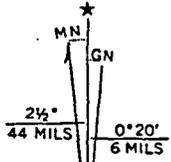
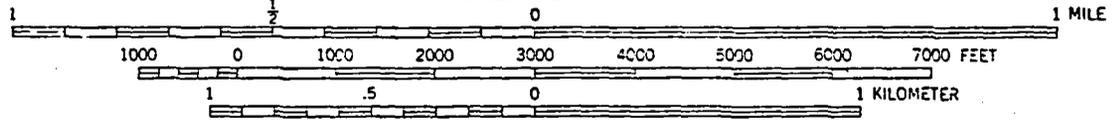
III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

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

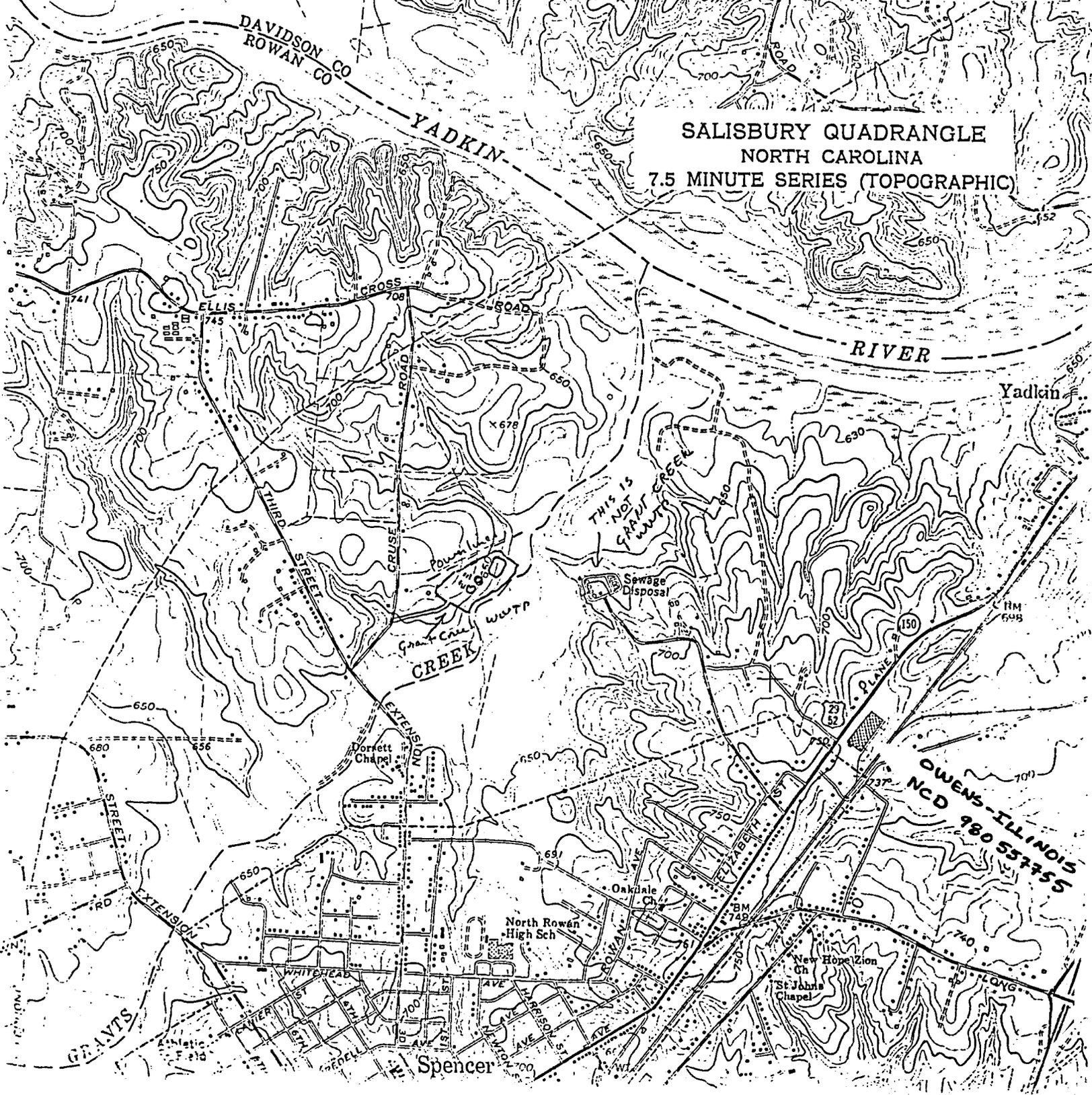


SCALE 1:24 000



CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

UTM GRID AND 1962 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET



DATE: 9/10/85

TO: File

FROM: Grover Nicholson

Grover Nicholson

SUBJECT: Owens-Illinois, Inc. NCD 980557755

Telephone conversation with Ray Ousborn, Industrial Engineer with Owens-Illinois, Inc.

He told me the location of the facility. He said Owens-Illinois bought site in 1950's. Used to be National Container Corporation.

GN/tb/0210b

MEMORANDUM

Date: 30 July 1985
To: File
From: Grover Nicholson *G. Nicholson*
Re: Telecon with Gary Griffith of Owens-Illinois

I spoke today with Gary Griffith of Owens-Illinois. He told me that the pit in the backyard of the property was used to dispose of printing washdown water. The pit is about 10 feet by 20 feet in size. The property was purchased by Owens-Illinois from Container Corporation of America.

Date: January 28, 1982

County: Rowan

Notifier's name and address: S. F. Galeano

1700 N. Westwood Avenue, Toledo, Ohio 43607

Contact's name: G. T. Griffith (419) 247-9506 247-5000

Site name and address: Owens-Illinois/Salisbury

Box Plant, Old U.S. 29 North

Site location: Spencer

Rowan

Type of waste: wash water containing lead, chrome pigments in ink;

cadmium, iron, copper - minor

What process generated the waste? wash water from paper printing

Volume of waste: 125 cu. ft.

Method of storage or disposal: earth diked area outside of plant

Dates of waste activity: 1975 - 1979. none after 1979

Site history: A small earth diked area was used to collect any printer wash water that exceeded the capacity of sumps within the printer wash down area. Approximately 2-3 gallons were discharged to the diked area per wash down. Lead chrome and cadmium are toxic metals. The diked area contains no liquids at the present time.

DEM EPA

*The preceding information is based on preliminary data supplied by the Environmental Protection Agency, and not on detailed site investigations.

ENVIRONMENTAL PROTECTION AGENCY
NOTIS DATA MANAGEMENT SYSTEM

PAGE: 101
REPORT DATE: 10/20/81

NOTIS REPORT #4

LISTING BY FACILITY
REGION: 04 STATE: NC

NOTIFICATION ID NO.	SITE NAME SITE STREET SITE CITY SITE COUNTY EPA SITE ID NO.	NOTIFIER NAME NOTIFIER STREET NOTIFIER CITY (CONTACT NAME/TITLE) (CONTACT PHONE)	STATE	ZIP	NOTIFIER STATUS (PRES OWN, PAST OWN PRES OP, PAST OP TRANSPORTER, VOLUNTEER)
NCS000001113	OWENS-ILLINOIS/SALISBURY BOX PLANT OLD US 29 NORTH SPENCER 28144 ROWAN NCD980557755	S.F. GALEANO 1700 N. WESTWOOD AVE TOLEDO (GRIFFITH, G.T., ENV ENGR) (419-247-9506)	OH	43607	PRES OWN

RELEASES TO THE ENVIRONMENT:

DATES OF WASTE HANDLING: 1974 TO 1979

WASTE AMOUNT: 125 CU FT AREA: 25 SQ FT MAP PRESENT: NO FORM TYPE: 8900-1

NOTIF. POSTMARKED DATE: 81/06/09 SIGNATURE PRESENT: YES DATE OF LAST UPDATE: 81/10/14

TYPE OF FACILITY	TYPES OF WASTES	SOURCES OF WASTE
IMPOUNDMENT	CHROMIUM LEAD HEAVY METALS OTHER	PAPER/PRINTING

COMMENTS SEQ NO.

SEE FILE 1
POSSIBLE LEAD CHROMATE 300