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Site Name (Subject): OSHIELDS FLY ASH

Site ID (Document ID): NCD980728745

Document Name (DocType): Correspondence (C)

Report Segment:

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Access Level: PUBLIC

Division: WASTE MANAGEMENT

Section: SUPERFUND

Program (Document Group): IHS (IHS)

Document Category: FACILITY

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North Carolina Department of Environment and Natural Resources  
Division of Waste Management

Beverly Eaves Perdue  
Governor

Dexter R. Matthews  
Director

Dee Freeman  
Secretary

November 28, 2012

Mr. Alfred B. O'Shields  
Post Office Box 333  
Pisgah Forest, NC 28768

Re: Inactive Hazardous Waste Sites Priority List  
O'Shields Fly Ash  
Brevard, Transylvania County

Dear Mr. O'Shields:

The site listed above has been included on the October 2012 Inactive Hazardous Waste Sites Priority List (Priority List) in accordance with North Carolina General Statutes Section 130A-310.2. The Priority List is a list of sites where uncontrolled disposal, spills, or releases of hazardous substances have been identified. A special priority system (North Carolina Administrative Code Title 15A Subchapter 13C Section 0.200) is used to rank the sites in decreasing order of danger to public health and the environment.

This letter is being sent to you to fulfill our statutory duty to notify those who own and those who at present are known to be responsible for each site on the Priority List. A copy of the Priority List with each site's rank appearing in the right-hand column is available at <http://portal.ncdenr.org/web/wm/sf/sfavailabledocs> under the Site Inventory heading. This list is in alphabetical order by site name to make it easier for you to locate your score.

Any responsible party that has not already done so, must take the initial abatement actions required under North Carolina groundwater quality regulations (15A NCAC 2L). Pursuant to 15A NCAC 2L .0106(b), any person conducting or controlling an activity which results in the discharge of a waste or hazardous substance to the groundwater of the State, or in proximity thereto, shall take immediate action to terminate and control the discharge, and mitigate any hazards resulting from exposure to the pollutants. Pursuant to 15A NCAC 2L .0106(c), if groundwater standards have been exceeded, a responsible party must take immediate action to eliminate the source or sources of contamination. Beyond initial abatement actions, all assessment and cleanup will be done through the Inactive Hazardous Sites Response Act (N.C.G.S. 130A-310) authority.

Under the Inactive Hazardous Sites Response Act, persons who move forward to assess and clean up contamination, without being compelled to do so through formal legal action filed against them, are called "volunteers." To participate in the Inactive Hazardous Sites Branch's voluntary cleanup program, you will be required to enter into an administrative agreement with the Branch. If a responsible party or owner wishes to voluntarily perform a site cleanup, they should first complete a Site Cleanup Questionnaire available at <http://portal.ncdenr.org/web/wm/sf/sfavailabledocs> under the Forms heading. The voluntary cleanup will proceed through the Registered Environmental Consultant Program or under direct oversight by the Branch Staff, as discussed below.

The Branch has a privatized oversight arm of the voluntary cleanup program known as the Registered Environmental Consultant ("REC") program. Based on the responses provided on the questionnaire

(degree of hazard and public interest in the site), the Branch will determine whether a staff person or an REC will perform the oversight and approval of your assessment and cleanup action. Please note that having one or more of the conditions identified on the questionnaire does not necessarily preclude the site for qualifying for an REC-directed cleanup action.

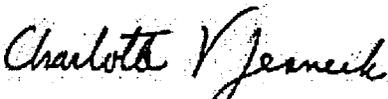
Under the REC program, the volunteer hires an environmental consulting firm, which the State has approved as having met certain qualifications, to implement a cleanup and certify that the work is being performed in compliance with regulations. In other words, the REC's certifications of compliance are in place of direct oversight by the Branch. Details of the REC program can be found at <http://portal.ncdenr.org/web/wm/sf/ih/recprogram>. If you have any questions specific to the REC Program, including how to participate, please contact the REC Program Manager, Kim Caulk, at (919) 707-8350.

If the Branch determines that the site should be assessed and cleaned up with direct State oversight, it will not be eligible for a REC-directed cleanup. Rather, the cleanup action will receive direct oversight by Branch staff.

Failure of a responsible party to take the initial abatement steps required in 15A NCAC 2L may result in the assessment of a civil penalty against that responsible party. In addition, the Branch may seek an injunction compelling compliance with the initial abatement steps required in 15A NCAC 2L. For future work beyond the initial abatement steps required pursuant to 15A NCAC 2L, a unilateral Order may be issued pursuant to N.C.G.S. 130A-310.3 to compel assessment and cleanup.

If you have any questions, you may contact Bruce Parris, Western Regional Supervisor at (704) 235-2185, John Walch, Eastern Regional Supervisor at (919) 707-8356 or me at (919) 707-8327. You can view a Branch regional map at <http://portal.ncdenr.org/web/wm/sf/ih/ihregmap> to determine if your site lies in the western or eastern region. Those who are interested in reviewing the Superfund Section's files on any of these sites may contact Scott Ross at (919) 707-8272, to schedule an appointment. You may also contact Mr. Ross if you do not have access to the internet and would like to request a copy of the Priority List be mailed to you.

Sincerely,



Charlotte V. Jesneck, Head  
Inactive Hazardous Site Branch  
Superfund Section



North Carolina Department of Environment and Natural Resources  
Division of Waste Management

Beverly Eaves Perdue  
Governor

Dexter R. Matthews  
Director

Dee Freeman  
Secretary

December 13, 2011

Mr. Alfred B. O'Shields  
Post Office Box 333  
Pisgah Forest, NC 28768

Re: Inactive Hazardous Waste Sites Priority List  
O'Shields Fly Ash  
Brevard, Transylvania County

Dear Mr. O'Shields:

The site listed above has been included on the October 2011 Inactive Hazardous Waste Sites Priority List (Priority List) in accordance with North Carolina General Statutes Section 130A-310.2. The Priority List is a list of sites where uncontrolled disposal, spills, or releases of hazardous substances have been identified. A special priority system (North Carolina Administrative Code Title 15A Subchapter 13C Section 0.200) is used to rank the sites in decreasing order of danger to public health and the environment.

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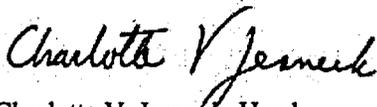
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If you have any questions, you may contact Bruce Parris, Western Regional Supervisor at (704) 235-2185, John Walch, Eastern Regional Supervisor at (919) 707-8356 or me at (919) 707-8327. You can view a Branch regional map at <http://portal.ncdenr.org/web/wm/sf/ihs/ihsregmap> to determine if your site lies in the western or eastern region. Those who are interested in reviewing the Superfund Section's files on any of these sites may contact Scott Ross at (919) 707-8272, to schedule an appointment. You may also contact Mr. Ross if you do not have access to the internet and would like to request a copy of the Priority List be mailed to you.

Sincerely,



Charlotte V. Jesneck, Head  
Inactive Hazardous Site Branch  
Superfund Section

CVJ/slbb(SPLMERGELTR\_2011.DOCX)



North Carolina Department of Environment and Natural Resources  
Division of Waste Management

Beverly Eaves Perdue  
Governor

Dexter R. Matthews  
Director

Dee Freeman  
Secretary

July 27, 2011

Mr. Alfred B. O'Shields  
Post Office Box 333  
Pisgah Forest, NC 28768

Re: Inactive Hazardous Waste Sites Priority List  
O'Shields Fly Ash  
Brevard, Transylvania County

Dear Mr. O'Shields:

The site listed above has been included on the October 2010 Inactive Hazardous Waste Sites Priority List (Priority List) in accordance with North Carolina General Statutes Section 130A-310.2. The Priority List is a list of sites where uncontrolled disposal, spills, or releases of hazardous substances have been identified. A special priority system (North Carolina Administrative Code Title 15A Subchapter 13C Section 0.200) is used to rank the sites in decreasing order of danger to public health and the environment.

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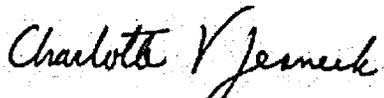
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If the Branch determines that the site should be assessed and cleaned up with direct State oversight, it will not be eligible for a REC-directed cleanup. Rather, the cleanup action will receive direct oversight by Branch staff.

Failure of a responsible party to take the initial abatement steps required in 15A NCAC 2L may result in the assessment of a civil penalty against that responsible party. In addition, the Branch may seek an injunction compelling compliance with the initial abatement steps required in 15A NCAC 2L. For future work beyond the initial abatement steps required pursuant to 15A NCAC 2L, a unilateral Order may be issued pursuant to § 130A-310.3 to compel assessment and cleanup.

If you have any questions, you may contact Bruce Parris, Western Regional Supervisor at (704) 235-2185, John Walch, Eastern Regional Supervisor at (919) 508-8485 or me at (919) 508-8460. You can view a Branch regional map at <http://portal.ncdenr.org/web/wm/sf/ihs/ihsregmap> to determine if your site lies in the western or eastern region. Those who are interested in reviewing the Superfund Section's files on any of these sites may contact Scott Ross at (919) 508-8475, to schedule an appointment. You may also contact Mr. Ross if you do not have access to the internet and would like to request a copy of the Priority List be mailed to you.

Sincerely,



Charlotte V. Jesneck, Head  
Inactive Hazardous Site Branch  
Superfund Section

CVJ/slbb(SPLMERGELTR\_2010.DOCX)



North Carolina Department of Environment and Natural Resources  
Division of Waste Management

Beverly Eaves Perdue  
Governor

Dexter R. Matthews  
Director

Dee Freeman  
Secretary

December 9, 2009

Mr. Alfred B. O'Shields  
Post Office Box 333  
Pisgah Forest, NC 28768

Re: Inactive Hazardous Waste Sites Priority List  
O'Shields Fly Ash  
Brevard, Transylvania County

Dear Mr. O'Shields:

The site listed above has been included on the October 2009 Inactive Hazardous Waste Sites Priority List (Priority List) in accordance with North Carolina General Statutes Section 130A-310.2. The Priority List is a list of sites where uncontrolled disposal, spills, or releases of hazardous substances have been identified. A special priority system (North Carolina Administrative Code Title 15A Subchapter 13C Section 0.200) is used to rank the sites in decreasing order of danger to public health and the environment.

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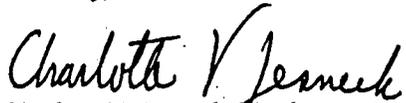
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Sincerely,



Charlotte V. Jesneck, Head  
Inactive Hazardous Site Branch  
Superfund Section

CVJ/slb(SPLMERGELTR\_2009.WPD)

Enclosure



## North Carolina Department of Environment and Natural Resources

Dexter R. Matthews, Director

Division of Waste Management

Michael F. Easley, Governor  
William G. Ross Jr., Secretary

January 15, 2009

Mr. Alfred B. O'Shields  
Post Office Box 333  
Pisgah Forest, NC 28768

Re: Inactive Hazardous Waste Sites Priority List  
O'Shields Fly Ash  
Brevard, Transylvania County

Dear Mr. O'Shields:

The site listed above has been included on the October 2008 Inactive Hazardous Waste Sites Priority List (Priority List) in accordance with North Carolina General Statutes Section 130A-310.2. The Priority List is a list of sites where uncontrolled disposal, spills, or releases of hazardous substances have been identified. A special priority system (North Carolina Administrative Code Title 15A Subchapter 13C Section 0.200) is used to rank the sites in decreasing order of danger to public health and the environment.

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Sincerely,



Charlotte V. Jesneck, Head  
Inactive Hazardous Site Branch  
Superfund Section

CVJ/slb(SPLMERGELTR\_2008.WPD)

Enclosure



North Carolina Department of Environment and Natural Resources

Dexter R. Matthews, Director

Division of Waste Management

Michael F. Easley, Governor  
William G. Ross Jr., Secretary

November 27, 2007

Mr. Alfred B. O'Shields  
Post Office Box 333  
Pisgah Forest, NC 28768

Re: Inactive Hazardous Waste Sites Priority List  
O'Shields Fly Ash  
Brevard, Transylvania County

Dear Mr. O'Shields:

The site listed above has been included on the October 2007 Inactive Hazardous Waste Sites Priority List (Priority List) in accordance with North Carolina General Statutes Section 130A-310.2. The Priority List is a list of sites where uncontrolled disposal, spills, or releases of hazardous substances have been identified. A special priority system (North Carolina Administrative Code Title 15A Subchapter 13C Section 0.200) is used to rank the sites in decreasing order of danger to public health and the environment.

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If you are interested in conducting a voluntary cleanup of your site, or if you have any questions, you may contact me at (919) 508-8460. Those who are interested in reviewing the Superfund Section's files on any of these sites may contact Scott Ross at (919) 508-8475, to schedule an appointment.

Sincerely,

Charlotte V. Jesneck, Head  
Inactive Hazardous Site Branch  
Superfund Section

CVJ/slb(SPLMERGELTR\_2007.WPD)

Enclosure



North Carolina Department of Environment and Natural Resources

Dexter R. Matthews, Director

Division of Waste Management

Michael F. Easley, Governor  
William G. Ross Jr., Secretary

November 15, 2006

Mr. Alfred B. O'Shields  
Post Office Box 333  
Pisgah Forest, NC 28768

Re: Inactive Hazardous Waste Sites Priority List  
O'Shields Fly Ash  
Brevard, Transylvania County

Dear Mr. O'Shields:

The site listed above has been included on the October 2006 Inactive Hazardous Waste Sites Priority List (Priority List) in accordance with North Carolina General Statutes Section 130A-310.2. The Priority List is a list of sites where uncontrolled disposal, spills, or releases of hazardous substances have been identified. A special priority system (North Carolina Administrative Code Title 15A Subchapter 13C Section 0.200) is used to rank the sites in decreasing order of danger to public health and the environment.

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Sincerely,

Charlotte V. Jesneck, Head  
Inactive Hazardous Site Branch  
Superfund Section

CVJ/slb(SPLMERGE10-2006.LTR)

Enclosure



North Carolina Department of Environment and Natural Resources

Michael F. Easley, Governor

Division of Waste Management

William G. Ross Jr., Secretary

January 20, 2006

Mr. Alfred B. O'Shields  
Post Office Box 333  
Pisgah Forest, NC 28768

Re: Inactive Hazardous Waste Sites Priority List  
O'Shields Fly Ash  
Brevard, Transylvania County

Dear Mr. O'Shields:

The site listed above has been included on the October 2005 Inactive Hazardous Waste Sites Priority List (Priority List) in accordance with North Carolina General Statutes Section 130A-310.2. The Priority List is a list of sites where uncontrolled disposal, spills, or releases of hazardous substances have been identified. A special priority system (North Carolina Administrative Code Title 15A Subchapter 13C Section 0.200) is used to rank the sites on this list in decreasing order of danger to public health and the environment.

This letter is being sent to you to fulfill our statutory duty to notify those who own and those who at present are known to be responsible for each site on the Priority List. A copy of the Priority List with each site's rank appearing in the right-hand column is attached. Please note this letter is simply a notice of the site's inclusion on the priority list and is not an order to conduct any work.

If a responsible party or owner wishes to voluntarily perform site cleanup, that party must enter into an agreement with the Branch to ensure Branch approval. Each voluntary remedial action will be overseen by Branch staff or, at the discretion of the Branch, by approved environmental consultants.

Those who are interested in reviewing the Superfund Section's files on any of these sites may contact Scott Ross at (919) 508-8475, to schedule an appointment. If you are interested in conducting a voluntary cleanup of your site, or if you have any questions, you may contact me at (919) 508-8460.

Sincerely,

Charlotte V. Jesneck, Head  
Inactive Hazardous Site Branch  
Superfund Section

CVJ/slb(SPLMERGE\_10-2005\_LTR.WPD)

Enclosure.



## North Carolina Department of Environment and Natural Resources

Dexter R. Matthews, Director

Division of Waste Management

Michael F. Easley, Governor  
William G. Ross Jr., Secretary

October 1, 2004

Mr. Alfred B. O'Shields  
Post Office Box 333  
Pisgah Forest, NC 28768

Re: Inactive Hazardous Waste Sites Priority List  
O'Shields Fly Ash  
Brevard, Transylvania County

Dear Mr. O'Shields:

The site listed above has been included on the October 2004 Inactive Hazardous Waste Sites Priority List (Priority List) in accordance with North Carolina General Statutes Section 130A-310.2. The Priority List is a list of sites where uncontrolled disposal, spills, or releases of hazardous substances have been identified. A special priority system (North Carolina Administrative Code Title 15A Subchapter 13C Section 0.200) is used to rank the sites on this list in decreasing order of danger to public health and the environment.

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If a responsible party or owner wishes to voluntarily perform site cleanup, that party must enter into an agreement with the Branch to ensure Branch approval. You should not proceed with remedial actions independently. Each voluntary remedial action will be overseen by Branch staff or, at the discretion of the Branch, by approved environmental consultants.

Those who are interested in reviewing the Superfund Section's files on any of these sites may contact Scott Ross at (919) 733-2801, ext. 328, to schedule an appointment. If you are interested in conducting a voluntary cleanup of your site, or if you have any questions, you may contact me at (919) 733-2801, ext. 284.

Sincerely,

Charlotte V. Jesneck, Head  
Inactive Hazardous Site Branch  
Superfund Section

CVJ/slb(SPLMERGE2004LTR.WPD)

Enclosure

NORTH CAROLINA  
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES  
DIVISION OF WASTE MANAGEMENT



MICHAEL F. EASLEY, GOVERNOR  
WILLIAM G. ROSS, JR., SECRETARY  
DEXTER R. MATTHEWS, DIRECTOR

October 15, 2003

Mr. Alfred B. O'Shields  
Post Office Box 333  
Pisgah Forest, NC 28768

Re: Inactive Hazardous Waste Sites Priority List  
O'Shields Fly Ash  
Brevard, Transylvania County

Dear Mr. O'Shields:

The site listed above has been included on the October 2003 Inactive Hazardous Waste Sites Priority List (Priority List) in accordance with North Carolina General Statutes Section 130A-310.2. The Priority List is a list of sites where uncontrolled disposal, spills, or releases of hazardous substances have been identified. A special priority system (North Carolina Administrative Code Title 15A Subchapter 13C Section 0.200) is used to rank the sites on this list in decreasing order of danger to public health and the environment.

This letter is being sent to you to fulfill our statutory duty to notify those who own and those who at present are known to be responsible for each site on the Priority List. A copy of the Priority List with each site's rank appearing in the right-hand column is attached. Please note this letter is simply a notice of the site's inclusion on the priority list and is not an order to conduct any work.

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Sincerely,

Charlotte V. Jesneck, Head  
Inactive Hazardous Site Branch  
Superfund Section

CVJ/slb(SPLMERGE10-2003.LTR)

Enclosure

NORTH CAROLINA  
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES  
DIVISION OF WASTE MANAGEMENT



MICHAEL F. EASLEY, GOVERNOR  
WILLIAM G. ROSS, JR., SECRETARY  
DEXTER R. MATTHEWS, DIRECTOR

January 23, 2003

Mr. Alfred B. O'Shields  
Post Office Box 333  
Pisgah Forest, NC 28768

Re: Inactive Hazardous Waste Sites Priority List  
O'Shields Fly Ash  
Brevard, Transylvania County

Dear Mr. O'Shields:

The site listed above has been included on the October 2002 Inactive Hazardous Waste Sites Priority List (Priority List) in accordance with North Carolina General Statutes Section 130A-310.2. The Priority List is a list of sites where uncontrolled disposal, spills, or releases of hazardous substances have been identified. A special priority system (North Carolina Administrative Code Title 15A Subchapter 13C Section 0.200) is used to rank the sites on this list in decreasing order of danger to public health and the environment.

This letter is being sent to you to fulfill our statutory duty to notify those who own and those who at present are known to be responsible for each site on the Priority List. A copy of the Priority List with each site's rank appearing in the right-hand column is attached. Please note this letter is simply a notice of the site's inclusion on the priority list and is not an order to conduct any work.

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Sincerely,

Charlotte V. Jesneck, Head  
Inactive Hazardous Site Branch  
Superfund Section

CVJ/slb(SPLMERGE1-2003.LTR)

Enclosure

NORTH CAROLINA  
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES  
DIVISION OF WASTE MANAGEMENT



MICHAEL F. EASLEY, GOVERNOR  
WILLIAM G. ROSS, JR., SECRETARY  
DEXTER R. MATTHEWS, INTERIM DIRECTOR

November 5, 2001

Mr. Alfred B. O'Shields  
Post Office Box 333  
Pisgah Forest, NC 28768

Re: Inactive Hazardous Waste Sites Priority List  
O'Shields Fly Ash  
Brevard, Transylvania County

Dear Mr. O'Shields:

The site listed above has been included on the October 2001 Inactive Hazardous Waste Sites Priority List (Priority List) in accordance with North Carolina General Statutes Section 130A-310.2. The Priority List is a list of sites where uncontrolled disposal, spills, or releases of hazardous substances have been identified. A special priority system (North Carolina Administrative Code Title 15A Subchapter 13C Section 0.200) is used to rank the sites on this list in decreasing order of danger to public health and the environment.

This letter is being sent to you to fulfill our statutory duty to notify those who own and those who at present are known to be responsible for each site on the Priority List. A copy of the Priority List with each site's rank appearing in the right-hand column is attached. Please note this letter is simply a notice of the site's inclusion on the priority list and is not an order to conduct any work.

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Sincerely,

Charlotte V. Jesneck, Head  
Inactive Hazardous Site Branch  
Superfund Section

CVJ/slb(SPLMERGE2001.LTR)

Enclosure



NORTH CAROLINA DEPARTMENT OF  
ENVIRONMENT AND NATURAL RESOURCES

DIVISION OF WASTE MANAGEMENT

November 30, 2000

JAMES B. HUNT JR.  
GOVERNOR

Mr. Alfred B. O'Shields  
Post Office Box 333  
Pisgah Forest, NC 28768

BILL HOLMAN  
SECRETARY

Re: Inactive Hazardous Waste Sites Priority List  
O'Shields Fly Ash  
Brevard, Transylvania County

WILLIAM L. MEYER  
DIRECTOR

Dear Mr. O'Shields:

The site listed above has been included on the November 2000 Inactive Hazardous Waste Sites Priority List (Priority List) in accordance with North Carolina General Statutes Section 130A-310.2. The Priority List is a list of sites where uncontrolled disposal, spills, or releases of hazardous substances have been identified. A special priority system (North Carolina Administrative Code Title 15A Subchapter 13C Section 0.200) is used to rank the sites on this list in decreasing order of danger to public health and the environment.

This letter is being sent to you to fulfill our statutory duty to notify those who own and those who at present are known to be responsible for each site on the Priority List. A copy of the Priority List with each site's rank appearing in the left-hand column is attached (sites are listed in order of highest to lowest priority). Please note this letter is simply a notice of the site's inclusion on the priority list and is not an order to conduct any work.

If a responsible party or owner wishes to voluntarily perform site cleanup, that party must enter into an agreement with the Branch to ensure Branch approval. You should not proceed with remedial actions independently. Each voluntary remedial action will be overseen by Branch staff or, at the discretion of the Branch, by approved environmental consultants.

Those who are interested in reviewing the Superfund Section's files on any of these sites may contact Scott Ross at (919) 733-2801, ext. 328, to schedule an appointment. If you are interested in conducting a voluntary cleanup of your site, or if you have any questions, you may contact me at (919) 733-2801, ext. 284.

Sincerely,

Charlotte V. Jesneck, Head  
Inactive Hazardous Site Branch  
Superfund Section

CVJ/slb(C:\WPWIN60\WPDOCS\ANNUAL2000\SPLMRG2000.LTR)

Enclosure



1646 MAIL SERVICE CENTER, RALEIGH, NORTH CAROLINA 27699-1646  
401 OBERLIN ROAD, SUITE 150, RALEIGH, NC 27605  
PHONE 919-733-4996 FAX 919-715-3605

AN EQUAL OPPORTUNITY / AFFIRMATIVE ACTION EMPLOYER - 50% RECYCLED/10% POST-CONSUMER PAPER

MEMO

TO: Greg Herr  
Superfund

FROM: Gina Braswell *GB*  
Attorney General's Office

DATE: October 19, 1999

RE: O'Shields Fly Ash  
SR 1510  
Brevard, Transylvania County

According to the Transylvania County Tax Department, there is property in the name of Alfred B. and Annie O'Shields. The property is off of SR 1510 which is Hudlin Gap Road.

PIN number - 8597983329000

Address for the O'Shields:

Mr. Alfred B. O'Shields  
P.O. Box 333  
Pisgah Forest, NC 28768

INACTIVE SITES RANKING SYSTEM  
SUMMARY SHEET

Site Name:	Oshields Fly Ash		
Location:	Brevard, Transylvania County		
EPA ID:	NCD 098 728 745	State ID:	SIS 880 100 022
Ranked By:	Greg Herr	Date:	06/23/99
Reviewed By:	Charlotte Jesneck	Date:	06/28/99

Site Description/Comments:

The Oshields Fly Ash site was used for the dumping of fly ash from Olin's (a paper and film corporation) coal-fired burners. About 22,000 cubic yards of fly ash was deposited on the site. There have been no environmental samples collected from the Oshields Fly Ash site. The only data available is from a similar dump site used by Olin. The fly ash at the Oshields Fly Ash site is believed to contain elevated levels of arsenic, chromium, cadmium and lead due to sampling results at a similar site.

	S	S	S		S
Route Scores:	GW = 65.79	SW = 60.73	A = 0.00		P = 3.25

Total Score: 
$$\frac{((65.79)^2 + (60.73)^2 + (0.00)^2 + (3.25)^2)^{1/2}}{2} = \underline{\underline{44.80}}$$

I. GROUND WATER ROUTE WORK SHEET

Rating Factor	Assigned Value (Circle One)	Score
---------------	--------------------------------	-------

A. Route Characteristics

- 1. Depth to Water Table      0 2 4 ⑥ 8 10
- 2. Net Precipitation              0 1 2 ③
- 3. Hydraulic Conductivity      0 1 ② 3
- 4. Physical State                  0 1 ② 3

Total Route Characteristics Score	13
-----------------------------------	----

B. Containment	0 1 2 ③	3
----------------	---------	---

C. Waste Characteristics

- 1. Toxicity/Persistence      0 3 6 9 12 15 ⑱
- 2. Hazardous Waste Quantity   0 1 2 3 4 5 6 ⑦ 8

Total Waste Characteristics Score	25
-----------------------------------	----

Ground Water Route of Migration Score

The Ground Water Route of Migration Score is obtained by multiplying lines A, B, and C and dividing this by 14.82 to give a score between 0 and 100.

Total Ground Water Route of Migration Score: 65.79

## II. SURFACE WATER ROUTE WORK SHEET

Rating Factor	Assigned Value (Circle One)	Score
---------------	--------------------------------	-------

**A. Route Characteristics**

- |   |              |
|---|--------------|
| 1. Facility Slope and Intervening Terrain | 0 ① 2 3      |
| 2. 1-yr., 24-hour Rainfall                | 0 1 2 ③      |
| 3. Distance to Nearest Surface Water      | 0 2 4 ⑥ 8 10 |
| 4. Physical State                         | 0 1 ② 3      |

<b>Total Route Characteristics Score</b>	<b>12</b>
--	-----------

<b>B. Containment</b>	0 1 2 ③	<b>3</b>
-----------------------	---------	----------

**C. Waste Characteristics**

- |                             |                   |
|-----------------------------|-------------------|
| 1. Toxicity/Persistence     | 0 3 6 9 12 15 ⑱   |
| 2. Hazardous Waste Quantity | 0 1 2 3 4 5 6 ⑦ 8 |

<b>Total Waste Characteristics Score</b>	<b>25</b>
--	-----------

**Surface Water Route of Migration Score**

The Surface Water Route of Migration Score is obtained by multiplying lines A, B, and C and dividing this by 14.82 to give a score between 0 and 100.

Total Surface Water Route of Migration Score: 60.73

### III. AIR ROUTE WORK SHEET

Rating Factor	Assigned Value (Circle One)	Score
---------------	--------------------------------	-------

**A. Waste Characteristics**

- |                                   |                   |
|-----------------------------------|-------------------|
| 1. Reactivity and Incompatibility | 0 1 2 3           |
| 2. Toxicity                       | 0 3 6 9           |
| 3. Hazardous Waste Quantity       | 0 1 2 3 4 5 6 7 8 |

Total Waste Characteristics Score	0
-----------------------------------	---

**B. Targets**

- |                                      |                             |
|--------------------------------------|-----------------------------|
| 1. Population Within a 4-Mile Radius | 0 9 12 15 18<br>21 24 27 30 |
| 2. Distance to Sensitive Environment | 0 2 4 6                     |
| 3. Land Use                          | 0 1 2 3                     |

Total Targets Score	0
---------------------	---

**Air Route of Migration Score**

The Air Route of Migration Score is obtained by multiplying lines A and B and dividing this by 7.80 to give a score between 0 and 100.

Total Air Route of Migration Score:     0

IV. DIRECT CONTACT ROUTE SCORE SHEET

Rating Factor	Assigned Value (Circle One)	Score
---------------	--------------------------------	-------

A. Residential Population

- |   |               |
|---|---------------|
| 1. Toxicity   | 0 3 6 9       |
| 2. Targets  |               |
| a) High Risk Population<br>(count x 8, max. 100)      | _____         |
| b) Total Resident Population<br>(count x 2, max. 100) | _____         |
| c) Sensitive Environment                              | 0 10 15 20 25 |

Resident Target Score  
(lines 2a + 2b + 2c, max. 100) \_\_\_\_\_

Total Residential Population Score	0
------------------------------------	---

B. Nearby Population

- |   |                |
|---|----------------|
| 1. Likelihood of Exposure<br>(matrix score) | 0.5            |
| a) Area of Contamination                    | 0 25 50 75 100 |
| b) Accessibility/<br>Frequency of Use       | 5 25 50 75 100 |
| 2. Toxicity                                 | 0 3 6 9        |
| 3. Targets (max. 100)                       | 13             |

Total Nearby Population Score	58.5
-------------------------------	------

Overall Population Exposure Score

The Overall Population Exposure Score is determined by adding lines A and B and dividing this by 18 to give a score between 0 and 100.

Total Population Exposure Route Score 3.25

DOCUMENTATION RECORDS  
FOR  
STATE HAZARD RANKING SYSTEM

INSTRUCTIONS: Briefly summarize the information you used to assign a score to each factor and document the source of the information and/or the rationale for each score.

Facility Name:	Oshields Fly Ash			
Site ID Numbers:	SIS	880 100 022	NCD	980 728 746
Location:	Brevard, Transylvania County			
Date Scored:	06/23/99			
Person Scoring:	Greg Herr			
Factors Not Scored:	Air Route and Residential Population			

Comments:

References:

1. US Geological Survey Topographic Map, Pisgah Forest, NC, Quadrangle, 1965.
2. North Carolina Atlas, University of NC Press, Chapel Hill, NC 1975.
3. Rainfall Frequency Atlas of the US, Technical Paper 40, US Department of Commerce, Washington, DC, 1963.
4. 1990 Census of Population and Housing: Summary Population and Housing Characteristics: North Carolina, US Department of Commerce.
5. Dangerous Properties of Industrial Materials, N. Irving Sax, Van Reinhold Company, Inc., 1984.
6. "Preliminary Assessment Update, Oshields Fly Ash," NC Division of Health Services, 1988.

## GROUND WATER ROUTE

### A. Route Characteristics:

1. Depth to Water Table:

6: 8 feet (6)

2. Net Precipitation:

3: 72" precipitation - 37" evaporation = 35" net precipitation (2)

3. Hydraulic Conductivity of Unsaturated Zone:

2:  $1 \times 10^{-3}$  cm/sec (6)

4. Physical State:

2: Solid (fine particles) (6)

### B. Containment:

3: None (6)

### C. Waste Characteristics:

1. Toxicity/Persistence:

18: 3/3 Arsenic (5,6)

2. Hazardous Waste Quantity:

7: 22,000 cubic yards (6)

## SURFACE WATER ROUTE

### A. Route Characteristics:

#### 1. Facility Slope and Intervening Terrain:

1: Facility slope = 2.6%; intervening terrain = 3.2% (1)

#### 2. One-year 24-hour Rainfall:

3: 4.0 to 4.5 inches (3)

#### 3. Distance to Nearest Surface Water/Name:

6: 550 feet to Turkey Creek (1)

#### 4. Physical State:

2: Solid (fine particles) (6)

### B. Containment:

3: None (6)

### C. Waste Characteristics:

#### 1. Toxicity/Persistence:

18: 3/3 Arsenic (5,6)

#### 2. Hazardous Waste Quantity:

7: 22,000 cubic yards (6)

A. Waste Characteristics: Not Scored.

1. Reactivity and Incompatibility:

2. Toxicity:

3. Hazardous Waste Quantity:

B. Targets:

1. Population within 4-mile Radius/Distance from Hazardous Substance:

2. Distance to Sensitive Environment:

3. Land Use:

## POPULATION EXPOSURE ROUTE

### A. Residential Population: Not Scored.

1. Toxicity:
  
2. Targets:
  - a. High Risk Population:
  
  - b. Total Resident Population:
  
  - c. Sensitive Environment:

### B. Nearby Population:

#### 1. Likelihood of Exposure Score: 0.5

##### a. Area of Contamination:

50: 2 acres

(6)

##### b. Accessibility/Frequency of Use:

75: No barrier

(6)

#### 2. Toxicity:

9: 3 x 3 Arsenic

(5,6)

#### 3. Targets: $0.1(53) + 0.05(157) = 13$

a. 0 - ½ mile:  $3.14(0.5^2) \times 67 \text{ people/sq.mi.} = 53$

(4)

b. ½ - 1 mile:  $3.14(1^2 - 0.5^2) \times 67 \text{ people/sq.mi.} = 157$

(4)

MEMO

DATE: March 8, 1995

TO: State File  
O'Shields Flyash  
NCD 980 728 745  
Pisgah Forest, Transylvania Co., NC

FROM: Jeanette Stanley, Environmental Chemist  
NC Superfund Section

RE: Knob Creek  
Brevard, Transylvania Co., NC  
NCD 980 729 677

STATE FILE



Brown # 1, O'Shields (NCD 980 728 745), and Knob Creek were flyash landfills that operated 1977 - 1979. All received similar wastes. All received a NFRAP (no further action) status under CERCLA in the early 1980s. Knob Creek received 6,000 cubic yards of flyash and the other two landfills each received 20,000 cubic yards of flyash. Knob Creek is currently #8 on the Inactive Hazardous Sites Inventory. Analytical data is available for the Knob Creek flyash landfill and not available for O'Shields and Brown # 1.

Knob Creek has been restudied under CERCLA. Flyash was moved to within 100 feet of a community well during construction of an on-site duplex. This well has been condemned. There is a private drinking water well through the landfill site that serves the duplex.

All three landfills operated under permits issued by the NC Solid Waste Division.

**Ecusta**

P.O. BOX 200 • PISGAH FOREST, NORTH CAROLINA 28768 • TELEPHONE (704) 877-2347

February 12, 1988

*Several Sites*

*Olin Corp / Brown #1 / O'shields*

Mr. Stan Otwood  
Superfund Unit  
Division Of Health Services  
P. O. Box 2091  
Raleigh, North Carolina 27603-2091

**COPY**



Dear Mr. Otwood:

Subject: Notification Of An Inactive  
Hazardous Substance At A  
Waste Disposal Site

As a result of our telephone conversation of January 25th, enclosed is the requested narrative description of the solid waste disposal sites located in North Carolina used by the Ecusta Division of the P. H. Glatfelter Company from 1938 to the present and completed Paragraphs A, B, C, O, and P of Section A of N.C. DHS 3524(11/87).

As we discussed, the Superfund unit has a voluminous file on Ecusta and its predecessor, the Ecusta Paper and Film Group of the Olin Corporation. For your information, attached are copies of the following:

1. A letter from J. Swallow (Solid & Hazardous Waste Management Branch) to W. Jones of the E.P.A. (Atlanta) containing the "potential hazardous waste site preliminary assessment" reports dated January 27, 1984.
2. Letter to J. Swallow from R. J. Gussman (Ecusta) on errors found in Item 1, dated February 9, 1984.
3. Letter to J. Swallow from R. J. Gussman clarifying significant data, dated March 5, 1984.

I believe that the submittal of the above information will meet the needs of NCGS 138-310. If further information is desired, please call me at (704) 877-2347.

Sincerely,

ECUSTA DIVISION  
P. H. GLATFELTER COMPANY

*R. J. Gussman*  
R. J. Gussman, Director  
Environmental Affairs

/bh

enclosures

cc: J. Patterson - Black Mountain  
R. S. Lawrence - Ecusta

NARRATIVE DESCRIPTION OF SOLID WASTE DISPOSAL SITES -  
ECUSTA IN TRANSYLVANIA COUNTY

---

The Ecusta Division of P. H. Glatfelter Company has operated a large integrated paper mill at its Transylvania County site since 1939. In 1953, a large cellophane plant producing cellophane from wood pulp was added at this location. In 1985, the latter ceased operation. With this as a background, you can understand that it is extremely complicated and difficult to trace the final destination of waste generated throughout the history of the plant. Using the best information available, the following solid waste scenario has been developed.

Our wastes are divided into three categories. The first being general cellulose waste and other materials generated during the manufacture of paper and cellophane prior to 1985. This would be similar to waste generated from any large industrial facility that manufactures such products.

The second category of solid waste is ash generated in our coal-fired power boilers. Trace amounts of heavy metals, such as arsenic, cadmium, iron, and lead may be present in the ash. Samples of this ash have been tested according to EPA's toxicity procedure and found to be nontoxic and nonhazardous. Test results from January 1980 to 1986 are available and have been previously sent to the Department of Human Resources. Prior to 1976, the ash generated by the coal-fired combustors at this location was disposed of by a contract hauler. After 1976, all ash was disposed of in company controlled disposal areas.

The third category of waste includes primary wastewater treatment plant sludge, incinerated material, and cement and steel rubble. Samples of the sludge have been tested according to EPA's toxicity procedure and found to be nontoxic and nonhazardous. Test results from March 1979 through 1986 are available and have previously been sent to the Department of Human Resources.

<u>Site Number*</u>	<u>Time Period</u>	<u>Type Of Waste</u>
NCD003166675	1939 - 1959	Landfill used for disposal of general waste generated during the manufacture of fine paper.
NCD980503072	1950 - 1956	Landfill of general industrial and cafeteria waste, primarily rolls of off-spec paper and cellophane.
NCD003166675	1953 - 1966	Pit type incineration of burnable wastes from Paper and Cellophane Manufacturing Facility.
NCD003166675 NC88-05	1966 - Current	Landfill used for disposal of all nonhazardous wastes generated in Paper and Cellophane Manufacturing Plant (closed in 9/85).

MONO-INDUSTRIAL ASH DISPOSAL SITES

<u>Site Number*</u>	<u>Time Period</u>	<u>Comments</u>
NCD980728745 <i>Osh. clds</i>	1976 - 1977	Landfill contains approximately 22,000 cubic yards of ash.
NCD980729677	1977 - 1979	Landfill contains approximately 6,000 cubic yards of ash.
NCD980502827 <i>Brown# 1</i>	1977 - 1979	Landfill contains approximately 20,000 cubic yards of ash.
NC88-01	1979 - Current	Landfill contains approximately 120,000 cubic yards of ash as of 12/31/87.

OTHER DISPOSAL SITES

<u>Site Number*</u>	<u>Time Period</u>	<u>Comments</u>
NCD003166675	1953 - 1962	Incinerator used intermittently for disposal of wastes generated during the manufacture of cellophane.
NCD980729537	1973	Landfill used only for cement and steel rubble, approximately 50 cubic yards. Traces of heavy metals may be present as constituents of metal reinforcing bars contained in cement rubble or as a contaminant.
NCD024852675	1975 - 1978	Commercial junk auto incinerator used to dispose of solvent coated cellophane generated during the manufacture of cellophane products from wood pulp. No chlorinated solvents were incinerated.
NC88-01	1977 - Current	This landfill is used only for the disposal of sludge generated in an industrial primary wastewater treatment plant.

\*Refers to site numbers as listed in EPA's "Potential Hazardous Waste Site Preliminary Assessment", if available. If not, DHR permit number.

For Agency Use Only
SITE # _____

**SECTION A**  
**NOTIFICATION OF AN INACTIVE HAZARDOUS SUBSTANCE**  
**OR WASTE DISPOSAL SITE**

North Carolina General Statutes Section 130A-310 provides for protection of the public from inactive hazardous substance or waste disposal sites. Notification information, required by North Carolina General Statutes Section 130A-310.1(b) must be submitted to:

Superfund Unit  
Division of Health Services  
P.O. Box 2091  
Raleigh, NC 27602-2091

*Please read instructions before completing.*

*Please type or print in black ink.*

**A. SITE NAME AND PERSON REQUIRED TO NOTIFY:**

1. Site Name <u>Ecusta - Pisgah Forest</u> (One site per form)	Present Owner <input type="checkbox"/> Past Owner <input type="checkbox"/> Present Operator <input checked="" type="checkbox"/> Past Operator <input type="checkbox"/> Other <input type="checkbox"/> (specify) _____
2. Person Completing Form: Name <u>R. J. Gussman</u> Mailing Address <u>Ecusta Division Of P.H. Glatfelter Co.</u> <u>P. O. Box 200</u> City <u>Pisgah Forest</u> State <u>N.C.</u> Zip Code <u>28768</u> Telephone <u>(704) 877-2347</u>	Corporation <input checked="" type="checkbox"/> Partnership <input type="checkbox"/> Individual <input type="checkbox"/> Other Responsible Party <input type="checkbox"/> (specify) _____
3. Present Owner: Name <u>Ecusta Division Of P.H. Glatfelter Co.</u> Mailing Address <u>P. O. Box 200</u> City <u>Pisgah Forest</u> State <u>N.C.</u> Zip Code <u>28768</u> Telephone <u>(704) 877-2347</u>	Past Owner <input checked="" type="checkbox"/> Present Operator <input type="checkbox"/> Past Operator <input type="checkbox"/> Other Responsible Party <input type="checkbox"/> (specify) _____
4. Other <u>Ecusta Corporation</u> Mailing Address <u>P. O. Box 200</u> City <u>Pisgah Forest</u> State <u>N.C.</u> Zip Code <u>28768</u> Telephone <u>(704) 877-2347</u>	Past Owner <input checked="" type="checkbox"/> Present Operator <input type="checkbox"/> Past Operator <input type="checkbox"/> Other Responsible Party <input type="checkbox"/> (specify) _____
5. Other <u>Olin Corporation (Ecusta Paper &amp; Film Group)</u> Mailing Address <u>P. O. Box 200</u> City <u>Pisgah Forest</u> State <u>N.C.</u> Zip Code <u>28768</u> Telephone <u>(704) 877-2347</u>	Past Owner <input checked="" type="checkbox"/> Present Operator <input type="checkbox"/> Past Operator <input type="checkbox"/> Other Responsible Party <input type="checkbox"/> (specify) _____

**E. CURRENT ENVIRONMENTAL PERMITS:**

If no environmental permit has been issued, check "None" for each type of permit. Complete for each of the following.

Type of Permit	None	Permit Number	Date Issued	Expiration Date	Comments
1. NPDES	<input type="checkbox"/>	_____	___/___/___	___/___/___	_____
2. Air	<input type="checkbox"/>	_____	___/___/___	___/___/___	_____
3. RCRA	<input type="checkbox"/>	_____	___/___/___	___/___/___	_____
4. RCRA interim status	<input type="checkbox"/>	_____	___/___/___	___/___/___	_____
5. State	<input type="checkbox"/>	_____	___/___/___	___/___/___	_____
a. Non-discharge	<input type="checkbox"/>	_____	___/___/___	___/___/___	_____
b. High productivity well	<input type="checkbox"/>	_____	___/___/___	___/___/___	_____
c. Other (specify) _____	<input type="checkbox"/>	_____	___/___/___	___/___/___	_____
6. Local (specify) _____	<input type="checkbox"/>	_____	___/___/___	___/___/___	_____
7. Other (specify) _____	<input type="checkbox"/>	_____	___/___/___	___/___/___	_____

**F. KNOWN OR SUSPECTED RELEASE OF HAZARDOUS SUBSTANCE OR WASTE TO THE ENVIRONMENT:**

(More than one may apply.)

Environmental Media	Date of Known or Suspected Release			Likely	Unlikely	None	Comments
	Known	Suspected	Release				
1. Groundwater	<input type="checkbox"/>	<input type="checkbox"/>	___/___/___	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2. Surface water	<input type="checkbox"/>	<input type="checkbox"/>	___/___/___	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3. Surface soil	<input type="checkbox"/>	<input type="checkbox"/>	___/___/___	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4. Subsurface soil	<input type="checkbox"/>	<input type="checkbox"/>	___/___/___	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
5. Air	<input type="checkbox"/>	<input type="checkbox"/>	___/___/___	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

**G. PHYSICAL STATE OF HAZARDOUS SUBSTANCE OR WASTE AS DEPOSITED:** (More than one may apply.)

- 1.  Solid
- 2.  Powder
- 3.  Liquid
- 4.  Sludge
- 5.  Non-Containerized Gas
- 6.  Containerized Gas
- 7.  Other (describe) \_\_\_\_\_

**H. HAZARDOUS SUBSTANCE OR WASTE DISPOSAL AND STORAGE METHOD:** (More than one may apply.)

- 1.  Piles
- 2.  Land treatment
- 3.  Landfill
- 4.  Tanks, underground
- 5.  Tanks, above ground
- 6.  Septic tanks
- 7.  Impoundment
- 8.  Underground injection
- 9.  Drums, above ground
- 10.  Drums, above ground, in open
- 11.  Drums, below ground
- 12.  Other (specify) \_\_\_\_\_

**I. HAZARDOUS SUBSTANCE OR WASTE TYPE USED OR DISPOSED ON SITE:** (More than one may apply.)

- 1.  Organics
- 2.  Inorganics
- 3.  Solvents
- 4.  Pesticides
- 5.  Heavy metals
- 6.  Acids
- 7.  Bases
- 8.  PCBs
- 9.  Mixed municipal waste
- 10.  Unknown
- 11.  Other (specify) \_\_\_\_\_

Site Name Ecusta - Pisgah Forest

L. SPECIFIC HAZARDOUS SUBSTANCE OR WASTE COMPOUNDS ASSOCIATED WITH THE SITE, IF KNOWN: (More than one may apply.)

Waste Compounds/ Substances	Generated On Site	Off-Site Disposal	On-Site Disposal
1. _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

M. ACCESSIBILITY OF SITE: (More than one may apply.)

- 1.  Security guard
- 2.  Physical barrier (steep bank, creek, walls, etc.)  
Describe physical barriers \_\_\_\_\_
- 3.  Site completely surrounded by fence
- 4.  Site partially surrounded by fence
- 5.  Locked gate
- 6.  Unlocked gate
- 7.  No control of access to site
- 8.  Other (specify) \_\_\_\_\_

N. REMEDIAL ACTION: (More than one may apply.)

- 1.  No environmental action
- 2.  Environmental study
- 3.  Remedial action

O. AVAILABILITY OF ANALYTICAL MONITORING DATA:

Is analytical monitoring data for the site available?

YES       NO

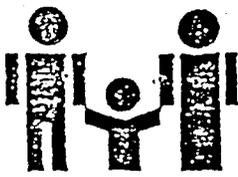
IF YES: check the appropriate box to indicate the purpose for which the data was collected. (More than one may apply.)

- CERCLA
- RCRA
- Remedial Action
- Environmental Audit
- Other (specify) NPDES & Air Permit

IF DATA WAS COLLECTED: FIRST COMPLETE SECTION P. CERTIFICATION AND SIGNATURE ON THE NEXT PAGE AND THEN COMPLETE DHS 3525, SECTION B SITE DATA ADDENDUM NOTIFICATION OF AN INACTIVE HAZARDOUS SUBSTANCE OR WASTE DISPOSAL SITE.

ATTACHMENT 1

JANUARY 27, 1984 LETTER FROM J. SWALLOW TO W. JONES



DIVISION OF HEALTH SERVICES  
P.O. Box 2091  
Raleigh, N.C. 27602-2091

January 27, 1984

Mr. Walton Jones  
EPA 3012 Regional Project Officer  
Air and Hazardous Materials Division  
U. S. Environmental Protection Agency  
345 Courtland Street, N.E.  
Atlanta, Georgia 30365

Subject: Preliminary Assessment Report

Brown #1 SR 1504, Pisgah Forest, Transylvania, N. C. 28768	NCD980502827 ✓
Camp Strauss SR 276, Brevard, Transylvania, N. C., 28712	NCD980729537 ✓
Delmar Company 3300 Monroe Rd., Charlotte, Mecklenburg, N.C., 28205	NCD003149283
Harrisburg Battery Rt. 49, Concord, Cabarrus, N.C., 28025	NCD980557722
High Point Furniture Inds. Inc. P. O. Box 2063, Corporation Dr., High Point, Randolph, N.C., 27261	NCD003225620
Knob Creek Rt. 1540, Brevard, Transylvania, N.C., 28712	NCD980729677
Koppers Company, Inc. P. O. Box 553, Paw Creek, Mecklenburg, N.C., 28130	NCD093344133
Olin Corporation Ecusta Paper & Film Vanderbilt Road, Pisgah Forest, Transylvania, N.C., 28768	NCD003166675 ✓
O'Shield's Fly Ash SR 1510, Brevard, Transylvania, N.C., 28712	NCD980728745 ✓
Owens Landfill Osborne Rd., Brevard, Transylvania, 28712	NCD980503072 ✓
Pitt Co. Landfill SR 1203, Greenville, Pitt, N.C., 27834	NCD980557680
Reichold Chemical Company/Moncure SR 1916, Moncure, Chatham, N. C., 27559	NCD049845548
Sayles-Biltmore Bleacheries Swannanoa River Rd., Asheville, Buncombe, N.C., 28805	NCD062552153

Tarboro County Landfill  
Baker St. Extn., Tarboro, Edgecombe, N.C., 27886

NCD980559389

Union County Landfill  
Olive Branch Rd., Monroe, Union, N.C., 28110

NCD980503163

Dear Mr. Jones

Submitted under this cover are the Preliminary Assessment Reports for the subject sites.

Based on our review of the available data, we have concluded that Sayles-Biltmore Bleacheries, Tarboro County Landfill, Delmar Company, Koppers Company, Pitt County Landfill and High Point Furniture should be placed on the inactive list, as no further action is required at these sites.

Delmar Company is a printing company that reported trichloroethane and methylene chloride evaporation from their machinery. No spills, waste storage, or waste disposal sites are present at this facility and their use of these solvents has been discontinued.

Three hundred (300) barrels of lacquer and solvent wastes were present at High Point Furniture. These barrels were removed and the site is inspected annually due to its RCRA generator status.

Koppers Company, Inc. notified due to an asphalt spill. The asphalt was not hazardous, and was properly disposed of in a landfill after it solidified.

Pitt County Landfill received substantial amounts of lead and mercury from battery casings and approximately 1,000 cubic yards of pesticide residues from a fire at Coastal Chemical. The pesticides were placed in a clay cell lined with lime. Annual groundwater monitoring indicates no movement of the pesticides and normal heavy metal concentrations. No further action beyond the continued monitoring of the groundwater is recommended at this time.

There is and never has been any hazardous wastes disposed of or stored at the Sayles-Biltmore Bleacheries. Notification was in error.

Notification for the Tarboro Landfill was a purely precautionary measure. The landfill never accepted hazardous materials.

Brown #1, Knob Creek, and O'Shield's Fly Ash also need no further action, and should be placed on the inactive list. They were all ravines which were filled with low-sulfur coal boiler ash by the Olin Corporation. These landfills were approved by North Carolina, and operated correctly. The ash is not hazardous, nor is it toxic.

Owens Landfill and Camp Strauss are two more Olin Corporation sites which require no further action and should be placed on the inactive list.

Owens Landfill contains primarily paper, cellophane, and cafeteria waste. The only hazardous constituents are traces of heavy metals from empty paint cans.

Camp Strauss is a landfill containing only 50 cubic yards of cement and steel rubble. Notification was precautionary, made due to possible traces of heavy metals contained in cement reinforcing bars.

Harrisburg Battery, Olin Corporation Ecusta Paper & Film, Reichold Chemical Company, and the Union County Landfill all need a site inspection with a low priority ranking. There is a potential for groundwater contamination of each of these sites and there may be a need to install monitoring wells. The Harrisburg Battery site was cleaned up some; soil has been removed and lime was surface applied. Unfortunately, an unlined surface impoundment that used to receive battery drippings containing heavy metals and acid still exists on site. As this is not a populous area, a low priority site inspection is recommended with special attention paid to the possibility of groundwater contamination from the acid-pit.

Olin Corporation Ecusta Paper & Film has had their island landfill in operation since 1939. Prior to 1966 it may have received heavy metals, solvents, and other organic compounds. For this reason, groundwater monitoring is recommended.

The Reichold Chemical Company site is a landfill containing gelled phenolic formaldehyde and urea formaldehyde resins. Groundwater contamination with formaldehyde and phenol is a possibility, therefore groundwater monitoring is recommended.

Union County Landfill was added to the ERRIS list due to the disposal of a non-toxic non-hazardous municipal waste water treatment plant sludge. However, 700 pounds of granular DDT (average conc. 25%) were also disposed in this landfill. For this reason, groundwater monitoring is recommended.

If you have any questions, please contact me.

Sincerely,



June Swallow, Engineer

Solid & Hazardous Waste Management Branch  
Environmental Health Section

JS:jj  
cc: O. W. Strickland  
Jay Sauber  
Arthur Mouberry  
Dennis Ramsey  
W. McClelland

Attachments

North Carolina 3012 Program

January 1984 Summary

June Swallow

Completed PA's

Proposed Priority

<u>EPA #</u>	<u>Site Name</u>	<u>Proposed Priority</u>
1. NCD062552153	Sayles-Biltmore Bleacheries	No further action
2. NCD980557722	Harrisburg Battery	SI, low priority
3. NCD980559389	Tarboro County Landfill	No further action
4. NCD003149283	Delmar Company	" " "
5. NCD093344133	Koppers Company, Inc.	" " "
6. NCD049845548	Reichold Chemical Company	SI, low priority
7. NCD980557680	Pitt County Landfill	No further action
8. NCD003225620	High Point Furniture	" " "
9. NCD003166675	Olin Corporation Ecusta Paper & Film	SI, low priority
10. NCD980503163	Union County Landfill	" " "
11. NCD980728745	O'Shield's Fly Ash	No further action
12. NCD980502827	Brown #1	" " "
13. NCD980729677	Knob Creek	" " "
14. NCD980503072	Owens Landfill	" " "
15. NCD980729537	Camp Strauss	" " "



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

I. IDENTIFICATION  
01 STATE 02 SITE NUMBER  
NC D003166675

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site) Olin Corp./Ecusta Paper and Film Group		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER Vanderbilt Road			
03 CITY Pisgah Forest	04 STATE NC	05 ZIP CODE 28768	06 COUNTY Transylvania	07 COUNTY CODE 088	08 CONG DIST 011
09 COORDINATES LATITUDE		LONGITUDE			

10 DIRECTIONS TO SITE (Starting from nearest public road)  
From NC Rt. 280 traveling SW make a left (south) onto Ecusta Road. Turn left onto Olin property, follow access road north onto island landfill.

III. RESPONSIBLE PARTIES

01 OWNER (if known) Olin Corp./Ecusta Paper and Film Group		02 STREET (Business, mailing, residential) Vanderbilt Road			
03 CITY Pisgah Forest	04 STATE NC	05 ZIP CODE 28768	06 TELEPHONE NUMBER (704) 877-2211		
07 OPERATOR (if known and different from owner)		08 STREET (Business, mailing, residential)			
09 CITY		10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER ( )	

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

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)  
 A. RCRA 3001 DATE RECEIVED: \_\_\_\_/\_\_\_\_/\_\_\_\_ MONTH DAY YEAR     B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: 6/9/81 MONTH DAY YEAR     C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION <input checked="" type="checkbox"/> YES    DATE <u>10/9/80</u> MONTH DAY YEAR <input type="checkbox"/> NO		BY (Check all that apply) <input type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA CONTRACTOR <input checked="" type="checkbox"/> C. STATE <input type="checkbox"/> D. OTHER CONTRACTOR <input type="checkbox"/> E. LOCAL HEALTH OFFICIAL <input type="checkbox"/> F. OTHER: _____ (Specify) CONTRACTOR NAME(S): _____			
02 SITE STATUS (Check one) <input checked="" type="checkbox"/> A. ACTIVE <input type="checkbox"/> B. INACTIVE <input type="checkbox"/> C. UNKNOWN		03 YEARS OF OPERATION BEGINNING YEAR <u>1939</u> ENDING YEAR _____ <input type="checkbox"/> UNKNOWN			

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED  
 Heavy metals, solvent still recovery bottoms, waste water treatment sludge. Fly ash from coal boilers. Solvent recovery bottoms and heavy metals have not been disposed of at the island landfill since 1966. Two additional Olin landfills are also shown, one contains fly ash, the other waste water treatment sludge.

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION  
 (see attachment) treatment sludge.

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 (Inspect on time available basis)     D. NONE (No further action needed. Complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT R. J. Gussman		02 OF (Agency/Organization) Olin Corp./Ecusta Paper and Film Group		03 TELEPHONE NUMBER 704 877-2347	
04 PERSON RESPONSIBLE FOR ASSESSMENT O. W. Strickland		05 AGENCY NC DHS	06 ORGANIZATION Solid & Haz. Waste Mgt. Br.	07 TELEPHONE NUMBER 919 733-2178	08 DATE <u>1/12/84</u> MONTH DAY YEAR

## 05 Description of Potential Hazard to Environment and/or Population

All landfills are currently permitted and operating correctly. Fly ash and waste water treatment sludge are non-toxic and non-hazardous (EP Tox, included). Stream water quality in the Davidson River just downstream from the island landfill indicates chronic environmental stress (DEM, 1980). The surface water drainage ditches and waste water treatment plant effluent from Olin were analyzed to determine if they were the pollution source. Results were inconclusive (DEM, 1980). Groundwater recharge to the Davidson from the island landfill could possibly be the pollution source. Groundwater monitoring at the island landfill is recommended.



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

I. IDENTIFICATION	
01 STATE NC	02 SITE NUMBER D024852675

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site) Schulhoffer Junkyard		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER P.O. Box 314			
03 CITY Waynesville	04 STATE NC	05 ZIP CODE 28786	06 COUNTY Haywood	07 COUNTY CODE 44	08 CONG DIST 011
09 COORDINATES LATITUDE		LONGITUDE			

10 DIRECTIONS TO SITE (Starting from nearest public road)  
Site is located on Howell Mill Road (SR1184) on the south side at the road between the railroad tracks and the intersection of SR1184 with SR1187.

III. RESPONSIBLE PARTIES

01 OWNER (if known) Mrs. Schulhoffer (Betsy) & Jake Schulhoffer		02 STREET (Business, mailing, residential) Howell Mill Road			
03 CITY Waynesville	04 STATE NC	05 ZIP CODE 28786	06 TELEPHONE NUMBER ( )		
07 OPERATOR (if known and different from owner) Mrs. Schulhoffer Bill Schulhoffer		08 STREET (Business, mailing, residential) SAME, P.O. Box 314			
09 CITY Waynesville	10 STATE NC	11 ZIP CODE 28786	12 TELEPHONE NUMBER ( )		
13 TYPE OF OWNERSHIP (Check one) <input checked="" type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL: _____ (Agency name) <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input type="checkbox"/> E. MUNICIPAL <input type="checkbox"/> F. OTHER: _____ (Specify) <input type="checkbox"/> G. UNKNOWN					

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

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION <input checked="" type="checkbox"/> YES    DATE 10, 9, 80 <input type="checkbox"/> NO    MONTH DAY YEAR		BY (Check all that apply) <input type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA CONTRACTOR <input checked="" type="checkbox"/> C. STATE <input type="checkbox"/> D. OTHER CONTRACTOR <input type="checkbox"/> E. LOCAL HEALTH OFFICIAL <input type="checkbox"/> F. OTHER: _____ (Specify) CONTRACTOR NAME(S): _____			
02 SITE STATUS (Check one) <input checked="" type="checkbox"/> A. ACTIVE <input type="checkbox"/> B. INACTIVE <input type="checkbox"/> C. UNKNOWN		03 YEARS OF OPERATION about 1972 - 1978 BEGINNING YEAR    ENDING YEAR <input type="checkbox"/> UNKNOWN			

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED  
 Between 1975 and 1978 the Ecusta Paper and Film Group at Olin Corp. had 72 tons of solvent coated cellophane and other solid wastes from the manufacture of cellophane. No chlorinated solvents were incinerated. No other haz. incinerated here. Wastes were incinerated here. Ash was taken to Haywood Co. landfill.

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION  
 All solvents had flashpoints less than 140° Cellophane burns to CO<sup>2</sup> and water. Hazardous ash would not result from the burning of these products.

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 Wallace Leatherwood R. J. Gussman		02 OF (Agency/Organization) N.C. Regional Air Quality Office Ecusta Paper and Film Group, Olin Corp.		03 TELEPHONE NUMBER (704) 452-2222 (704) 877-2347	
04 PERSON RESPONSIBLE FOR ASSESSMENT O. W. Strickland		05 AGENCY NC DHS	06 ORGANIZATION Solid & Haz. Waste Mgt. Br.	07 TELEPHONE NUMBER (919) 733-2178	08 DATE 1, 12, 84 MONTH DAY YEAR



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

IDENTIFICATION  
01 STATE | 02 SITE NUMBER  
NC | D980502827

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site) Brown #1		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER SR 1504			
03 CITY Pisgah Forest	04 STATE NC	05 ZIP CODE 28768	06 COUNTY Transylvania	07 COUNTY CODE 085	08 CONG DIST 011
09 COORDINATES LATITUDE 3 5 1 5 0 0 0		LONGITUDE 0 8 2 4 2 0 0 0			

10 DIRECTIONS TO SITE (Starting from nearest public road)  
Site is located on SR 1504 east of Pisgah Forest, 0.4 miles past the intersection of SR 1504 with SR 1518. Site is on left (north)

III. RESPONSIBLE PARTIES

01 OWNER (if known) Olin Corporation		02 STREET (Business, mailing, residential) Vanderbilt Road			
03 CITY Pisgah Forest	04 STATE NC	05 ZIP CODE 28768	06 TELEPHONE NUMBER (704) 877-2211		
07 OPERATOR (if known and different from owner)		08 STREET (Business, mailing, residential)			
08 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER ( )		

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

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

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION <input checked="" type="checkbox"/> YES    DATE <u>11 / 6 / 80</u> MONTH DAY YEAR <input type="checkbox"/> NO		BY (Check all that apply) <input type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA CONTRACTOR <input checked="" type="checkbox"/> C. STATE <input type="checkbox"/> D. OTHER CONTRACTOR <input type="checkbox"/> E. LOCAL HEALTH OFFICIAL <input type="checkbox"/> F. OTHER: _____ (Specify) CONTRACTOR NAME(S): _____			
02 SITE STATUS (Check one) <input type="checkbox"/> A. ACTIVE <input checked="" type="checkbox"/> B. INACTIVE <input type="checkbox"/> C. UNKNOWN		03 YEARS OF OPERATION BEGINNING YEAR <u>1977</u> ENDING YEAR <u>1979</u> <input type="checkbox"/> UNKNOWN			

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED  
Fly ash (20,000 cubic yards) generated in Olin's coal-fired power boilers.

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION  
EP Toxicity test results show ash to be non-toxic and nonhazardous. Furthermore landfill was permitted and operated properly.

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 time available basis)     D. NONE (no further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT R. J. Gussmann		02 OF (Agency/Organization) Ecusta Paper and Film Group, Oil Corp.		03 TELEPHONE NUMBER (704) 877-2347	
04 PERSON RESPONSIBLE FOR ASSESSMENT O. W. Strickland		05 AGENCY NCDHS	06 ORGANIZATION Solid & Haz. Waste Mgt. Br.	07 TELEPHONE NUMBER (919) 733-2178	08 DATE <u>1 / 10 / 84</u> MONTH DAY YEAR



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

I. IDENTIFICATION  
01 STATE | 02 SITE NUMBER  
NC | D980729537

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site) Camp Straus		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER Bolveston Highway (SR 276)			
03 CITY Brevard	04 STATE NC	05 ZIP CODE 28712	06 COUNTY Transylvania	07 COUNTY CODE 088	08 CONG DIST 011
09 COORDINATES LATITUDE		LONGITUDE			

10 DIRECTIONS TO SITE (Starting from nearest public road)  
Landfill is in the N E corner of Camp Straus. Take SR 276 north out of Brevard. Entrance to Camp Straus is on left (west) approx. 1 mile past Allison Creek. Take camroad about 1 mile, turn right onto Old Timber Road:

III. RESPONSIBLE PARTIES

01 OWNER (if known) Olin Corp.		02 STREET (Business, mailing, residential) Vanderbilt Road			
03 CITY Pisgah Forest	04 STATE NC	05 ZIP CODE 28768	06 TELEPHONE NUMBER (704) 877-2211		
07 OPERATOR (if known and different from owner) Ecusta Paper and Film Group, Olin Corp.		08 STREET (Business, mailing, residential) Vanderbilt Road			
09 CITY Pisgah Forest	10 STATE NC	11 ZIP CODE 28768	12 TELEPHONE NUMBER (704) 877-2211		

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 (RCRA 103 c) DATE RECEIVED: \_\_\_\_/\_\_\_\_/\_\_\_\_ MONTH DAY YEAR     C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION    BY (Check all that apply)  
 YES    DATE 10 / 9 / 80     A. EPA     B. EPA CONTRACTOR     C. STATE     D. OTHER CONTRACTOR  
 NO    MONTH DAY YEAR     E. LOCAL HEALTH OFFICIAL     F. OTHER: \_\_\_\_\_ (Specify)  
 CONTRACTOR NAME(S): \_\_\_\_\_

02 SITE STATUS (Check one)    03 YEARS OF OPERATION  
 A. ACTIVE     B. INACTIVE     C. UNKNOWN    1973    1973     UNKNOWN  
 BEGINNING YEAR    ENDING YEAR

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED  
50 cubic yards of cement and steel rubble. Traces of heavy metals may be present only as constituents of metal reinforcing bars contained in cement rubble or as a contaminant.

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION  
Olin disposed of no heavy metals, as such, at this site. Cement and steel rubble is non-toxic and non-hazardous.

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 (inspect on time available basis)     D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT R. J. Gussman		02 OF (Agency/Organization) Ecusta Paper and Film Group, Olin Corp.		03 TELEPHONE NUMBER (704) 877-2347	
04 PERSON RESPONSIBLE FOR ASSESSMENT O. W. Strickland		05 AGENCY NC DHS	06 ORGANIZATION Solid & Haz. Waste Mgt. Br.	07 TELEPHONE NUMBER (919) 733-2178	08 DATE <u>1 / 12 / 84</u> MONTH DAY YEAR



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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NC	D980729677

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER			
Knob Creek		Route #1540			
03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
Brevard	NC	28712	Transylvania	088	011
09 COORDINATES LATITUDE		LONGITUDE			
_____		_____			

10 DIRECTIONS TO SITE (Starting from nearest public road)  
 Take the Greenville Highway (276) South out of Pisgah Forest approx. 2 miles.  
 Turn east (left) onto 1540 at Wilson Bridge. Travel approx. 1.4 miles.  
 Landfill is on the left (west).

III. RESPONSIBLE PARTIES

01 OWNER (If known)		02 STREET (Business, mailing, residential)			
Know Creek Properties, Inc.		P. O. Box 386			
03 CITY	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER		
Brevard	NC	28712	(704) 883-2025		
07 OPERATOR (If known and different from owner)		08 STREET (Business, mailing, residential)			
Ecusta Paper and Film Group, Olin Corp.		Vanderbilt Road			
09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER		
Pisgah Forest	NC	28768	(704) 877-2211		
13 TYPE OF OWNERSHIP (Check one)					
<input checked="" type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL: _____ (Agency name) <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input type="checkbox"/> E. MUNICIPAL <input type="checkbox"/> F. OTHER: _____ (Specify) <input type="checkbox"/> 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 e) DATE RECEIVED: \_\_\_\_/\_\_\_\_/\_\_\_\_ MONTH DAY YEAR     C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION		BY (Check all that apply)			
<input checked="" type="checkbox"/> YES. DATE <u>10/9/80</u> MONTH DAY YEAR <input type="checkbox"/> NO		<input type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA CONTRACTOR <input checked="" type="checkbox"/> C. STATE <input type="checkbox"/> D. OTHER CONTRACTOR <input type="checkbox"/> E. LOCAL HEALTH OFFICIAL <input type="checkbox"/> F. OTHER: _____ (Specify)			
CONTRACTOR NAME(S): _____					

02 SITE STATUS (Check one)		03 YEARS OF OPERATION			
<input type="checkbox"/> A. ACTIVE <input checked="" type="checkbox"/> B. INACTIVE <input type="checkbox"/> C. UNKNOWN		BEGINNING YEAR: <u>1977</u> ENDING YEAR: <u>1979</u> <input type="checkbox"/> UNKNOWN			

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED  
 6,000 cubic yards of fly ash from Olin's low sulfur coal fired boilers.

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION  
 Ash is non-toxic and nonhazardous (EP toxicity sheet enclosed) and landfill was permitted and operated correctly.

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 (Inspect on time available basis)     D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT		02 OF (Agency/Organization)		03 TELEPHONE NUMBER	
R. J. Gussman		Ecusta Paper and Film Corp. Olin Corp.		(704) 877-2346	
04 PERSON RESPONSIBLE FOR ASSESSMENT		05 AGENCY	06 ORGANIZATION	07 TELEPHONE NUMBER	08 DATE
O. W. Strickland		NCDEHS	Solid & Haz. Waste Mgt. Br.	(919) 733-2178	<u>1/12/84</u> MONTH DAY YEAR



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

I. IDENTIFICATION

01 STATE | 02 SITE NUMBER  
NC | 0980728745

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site) | 02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER  
O'Shield's Fly Ash | SR 1510

03 CITY | 04 STATE | 05 ZIP CODE | 06 COUNTY | 07 COUNTY CODE | 08 CONG. DIST.  
Brevard | NC | 28712 | Transylvania | 098 | 011

09 COORDINATES | LATITUDE | LONGITUDE

10 DIRECTIONS TO SITE (Starting from nearest public road)  
Turn south-southwest off of SR1510 onto private drive to O'Shield's home. Turn is approx. 1,000 ft. north west of intersection at SR1510 and Prong Creek.

III. RESPONSIBLE PARTIES

01 OWNER (if known) | 02 STREET (Business, making, residential)  
Mr. Alfred B. O'Shields | SR 1510

03 CITY | 04 STATE | 05 ZIP CODE | 06 TELEPHONE NUMBER  
Brevard | NC | 28712 | (704) 877-2211

07 OPERATOR (if known and different from owner) | 08 STREET (Business, making, residential)  
Ecusta Paper and Film Group, Olin Corp. | Vanderbilt Road

08 CITY | 10 STATE | 11 ZIP CODE | 12 TELEPHONE NUMBER  
Pisgah Forest | NC | 28768 | (704) 877-2211

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 e) DATE RECEIVED: \_\_\_\_/\_\_\_\_/\_\_\_\_ MONTH DAY YEAR  C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION BY (Check all that apply)  
 YES DATE 10 / 9 / 80 MONTH DAY YEAR  A. EPA  B. EPA CONTRACTOR  C. STATE  D. OTHER CONTRACTOR  
 NO  E. LOCAL HEALTH OFFICIAL  F. OTHER: \_\_\_\_\_ (Specify)  
CONTRACTOR NAME(S): \_\_\_\_\_

02 SITE STATUS (Check one) | 03 YEARS OF OPERATION  
 A. ACTIVE  B. INACTIVE  C. UNKNOWN | 1976 | 1977 |  UNKNOWN  
BEGINNING YEAR | ENDING YEAR

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED

Fly ash (22,000 cubic yards) from Olin's coal fired boilers.

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

Fly ash is non-toxic and nonhazardous as shown by enclosed EP toxicity sheet. Landfill was permitted and operated correctly.

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 (Inspect on time available basis)  D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT | 02 OF (Agency/Organization) | 03 TELEPHONE NUMBER  
R. J. Gussman | Ecusta Paper & Film Group, Olin Corp. | (704) 877-2347

04 PERSON RESPONSIBLE FOR ASSESSMENT | 05 AGENCY | 06 ORGANIZATION | 07 TELEPHONE NUMBER | 08 DATE  
O. W. Strickland | NC DHS | Solid & Haz. Waste Met. Br. | (919) 733-2178 | 1 / 12 / 84  
MONTH DAY YEAR



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

L. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NC	D980728745

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01  J. DAMAGE TO FLORA  
04 NARRATIVE DESCRIPTION

02  OBSERVED (DATE: \_\_\_\_\_)  POTENTIAL  ALLEGED

01  K. DAMAGE TO FAUNA  
04 NARRATIVE DESCRIPTION (include name(s) of species)

02  OBSERVED (DATE: \_\_\_\_\_)  POTENTIAL  ALLEGED

01  L. CONTAMINATION OF FOOD CHAIN  
04 NARRATIVE DESCRIPTION

02  OBSERVED (DATE: \_\_\_\_\_)  POTENTIAL  ALLEGED

01  M. UNSTABLE CONTAINMENT OF WASTES  
(Spills/runoff/standing liquids/leaking drums)

03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_

04 NARRATIVE DESCRIPTION

02  OBSERVED (DATE: \_\_\_\_\_)  POTENTIAL  ALLEGED

01  N. DAMAGE TO OFFSITE PROPERTY  
04 NARRATIVE DESCRIPTION

02  OBSERVED (DATE: \_\_\_\_\_)  POTENTIAL  ALLEGED

01  O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs  
04 NARRATIVE DESCRIPTION

02  OBSERVED (DATE: \_\_\_\_\_)  POTENTIAL  ALLEGED

01  P. ILLEGAL/UNAUTHORIZED DUMPING  
04 NARRATIVE DESCRIPTION

02  OBSERVED (DATE: \_\_\_\_\_)  POTENTIAL  ALLEGED

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 tests, air/water analysis, reports)

Letters from R. J. Gussman 1-16-81, 1-9-84  
Landfill approval and operational plans 7-28-76  
EP toxicity sheet on Olin's Fly-Ash 11-9-83  
Eckhardt Site Inspection Report 10-9-80 by J. M. Moore, Jr.



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

I. IDENTIFICATION  
01 STATE 02 SITE NUMBER  
NC D980503072

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site) Owens Landfill		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER Osborne Road			
03 CITY Brevard	04 STATE NC	05 ZIP CODE 28712	06 COUNTY Transylvania	07 COUNTY CODE 088	08 CONG DIST 011
09 COORDINATES LATITUDE 3 5 1 5 0 0 . 0		LONGITUDE 0 8 7 4 2 0 . 0			

10 DIRECTIONS TO SITE (Starting from nearest public road)  
Highway 276 north out of Brevard, cross railroad tracks, turn left (east) onto Osborne Road, site is on north side of road, approximately 1/2 mile east of the Straus School.

III. RESPONSIBLE PARTIES

01 OWNER (If known)		02 STREET (Business, mailing, residential)			
03 CITY	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER ( )		
07 OPERATOR (If known and different from owner)		08 STREET (Business, mailing, residential)			
Olin Corp.		Vanderbilt Road			
09 CITY Pisgah Forest	10 STATE NC	11 ZIP CODE 28768	12 TELEPHONE NUMBER (704) 877-2346		

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: \_\_\_\_/\_\_\_\_/\_\_\_\_ MONTH DAY YEAR     C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION		BY (Check all that apply)			
<input checked="" type="checkbox"/> YES    DATE <u>11/10/80</u> MONTH DAY YEAR	<input type="checkbox"/> NO	<input type="checkbox"/> A. EPA	<input type="checkbox"/> B. EPA CONTRACTOR	<input checked="" type="checkbox"/> C. STATE	<input type="checkbox"/> D. OTHER CONTRACTOR
		<input type="checkbox"/> E. LOCAL HEALTH OFFICIAL <input type="checkbox"/> F. OTHER: _____ (Specify)			
CONTRACTOR NAME(S): _____					
02 SITE STATUS (Check one)		03 YEARS OF OPERATION			
<input type="checkbox"/> A. ACTIVE	<input checked="" type="checkbox"/> B. INACTIVE	<input type="checkbox"/> C. UNKNOWN	BEGINNING YEAR 1950	ENDING YEAR 1956	<input type="checkbox"/> UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED  
Landfill of general industrial and cafeteria waste, primarily rolls of off-spec paper and cellophane. Trace quantities of heavy metals may be present as constituents of empty paint cans and/or pigments disposed of. Site was the county landfill prior to operation by Olin.

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION  
Upon inspection, no environmental damage was evident 11-10-80. Site presents very little potential risk as a result of Olin's disposals.

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 (Inspect on time available basis)     D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT R. J. Gussman	02 OF (Agency/Organization) Ecusta Paper and Film Group, Olin Corp.		03 TELEPHONE NUMBER ( ) 704 877-2347
04 PERSON RESPONSIBLE FOR ASSESSMENT O. W. Strickland	05 AGENCY NC DHS	06 ORGANIZATION Solid & Haz. Waste Mgt. Br.	07 TELEPHONE NUMBER (919) 733-2178
			08 DATE 7 10 / 84 MONTH DAY YEAR

ATTACHMENT 2

FEBRUARY 9, 1984 LETTER FROM R. J. GUSSMAN TO J. SWALLOW

bcc R.C. /JK  
A.H.  
f

February 9, 1984

Ms. June Swallow  
Solid & Hazardous Waste Management Branch  
Environmental Health Services  
Division Of Health Services  
P. O. Box 2091  
Raleigh, North Carolina 27602-2091

Dear Ms. Swallow:

Thank you for sending us a copy of your letter to Mr. Walter Jones dated January 27, 1984 regarding the preliminary assessment report on those locations which the Ecusta Paper and Film Group of the Olin Corporation has used for the disposal of solid waste. Unfortunately, there are a number of errors or misconceptions both in your letter and the EPA Potential Hazardous Waste Site Preliminary Assessment which we feel require our comments.

On Page 2 of your letter, you note that the Island Landfill operated by the Ecusta Paper and Film Group of Olin Corporation has been in operation since 1939. In actuality, this landfill has only been in operation since 1966 as was described to you in my January 5, 1984 letter. Prior to this, starting in 1953, an open pit type incinerator was located on this site and used to burn all burnable wastes from the Paper and Cellophane Manufacturing areas.

In the Potential Hazardous Waste Site Preliminary Assessment form for Site No. D003166675, there are a number of errors. Section II, Line 01, states that the site name is Olin Corporation/Ecusta Paper and Film Group. In actuality, the site name is "Island Landfill." This is the common description used in previous communications with the Division of Health Services, this is how this landfill is listed in the 1980 EPA Potential Hazardous Waste Site Inspection Reports as well as the Waste Disposal Site Survey conducted by the House Subcommittee on Oversight and Investigations in 1979; also, this is the title used in operating permits for this site. Furthermore, the area of this landfill is a very small fraction of the entire area occupied by the Ecusta Paper and Film Group at Vanderbilt Road in Pisgah Forest, North Carolina.

In Section IV, Characterization of Potential Hazards, Line 03, "Years of Operation," the beginning year should be 1966. As pointed out above, relative to your letter, the island landfill was placed in use in 1966.

Prior to that time, starting in 1953, an open pit type incinerator was operated on this island which burned all burnable wastes generated from Olin's Pisgah Forest facility.

In reference to Line 04, "Description of Substances Possibly Present, Known or Alleged," there has never been solvent still bottoms, wastewater treatment sludges, or fly ash disposed of in the Island Landfill. From 1956 to 1966, solvent still recovery bottoms were incinerated in an open pit type incinerator on the island. The heavy metals that are present in this landfill are those trace metals that are generated in the routine operation of a Paper Mill and Cellophane Production Facility whose products meet strict FDA standards for human usage.

Line 05, "Description of Potential Hazard to Environment and/or Population," as described in Line 04, ash and primary wastewater treatment sludge have never been disposed in this landfill. The water quality of the Davidson River is not adversely impacted by the Island Landfill. To substantiate this, we have had a biological investigation conducted by the C. T. Main Corporation in 1978. The results of this investigation indicate that the stretch of the Davidson River downstream of the Island Landfill is capable of supporting a diverse water community. Results of this test have previously been submitted to the North Carolina Division of Natural Resources and Community Development.

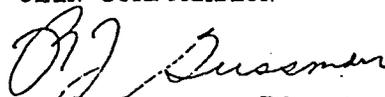
To further substantiate these findings, composite samples were taken from the Davidson River in 1982 both upstream and downstream of the Island Landfill. These samples were analyzed by Mead CompuChem for priority pollutants. Copies of these reports are attached for your information. This analysis shows that in most cases the chemicals analyzed for were found to be present below the limits of detection. Furthermore, in June and September 1982, during low flow conditions of the Davidson River, samples drawn from upstream and downstream of the island landfill were sent to the O.I. Corporation for total organic and total inorganic carbon analyses. Their results indicate basically no difference between the two sample points. A copy of these results are also attached for your information.

In view of the above data and the hydrogeological characteristics of the Pisgah Forest Facility, it seems clear the Island Landfill is not a possible pollution source to the ground water recharge of the Davidson River. Therefore, ground water monitoring should not be recommended for this site.

If further information or a clarification of any of these issues are needed, please contact me at (704) 877-2347. Again, thank you for giving us this opportunity to comment on this preliminary assessment report.

Sincerely,

ECUSTA PAPER AND FILM GROUP  
OLIN CORPORATION

  
R. J. Gussman, Director  
Environmental Control  
And Industrial Hygiene

/bh

enclosures

cc: Mr. Walter Jones  
Environmental Protection Agency  
Atlanta, Georgia

Mr. James Moore  
N. C. Department Of Human Resources  
Black Mountain, North Carolina

O. I. CORPORATION - COLLEGE STATION, TEXAS

JUNE 14, 1982

<u>Location</u>	<u>Davidson River Upstream</u>	<u>Davidson River Downstream</u>
Parameter		
TOC, ppm	1.62	1.68
TIC, ppm	2.30	2.94

SEPTEMBER 16, 1982

<u>Location</u>	<u>Davidson River Upstream</u>	<u>Davidson River Downstream</u>
Parameter		
TOC, ppm	1.69	1.32
TIC, ppm	2.26	3.59
Total Carbon, ppm	3.52	4.50
Total Inorganic, ppm	3.24	4.04

ATTACHMENT 3

MARCH 5, 1984 LETTER FROM R. J. GUSSMAN TO J. SWALLOW

bcc: R. G. Cunningham  
R. W. Habel

March 5, 1984

Ms. J. Swallow  
Solid & Hazardous Waste Management Branch  
Environmental Health Services  
Division Of Health Services  
P. O. Box 2091  
Raleigh, North Carolina 27602-2091

Dear Ms. Swallow:

Subject: Olin Corporation - Waste Disposal  
Transylvania County

This is in response to your telephone request of February 29, 1984. During the early part of 1977, the Ecusta Paper and Film Group contracted with Charles T. Main, Inc. to conduct a biological survey of the Davidson River at Pisgah Forest, North Carolina. The survey was completed during August and November of 1977. Station 1 was located upstream of the plant while Station 2 was located below our Filter Plant and the confluence of the Davidson River and Turkey Creek. As you requested, enclosed is a copy of this report for your review.

As was described in my letter to you of February 9, 1984, priority pollutant analyses were conducted in the Davidson River downstream of the Island Landfill in 1982. Samples were taken between August 23rd and August 26th, 1982 during a period when the flow varied from 50 to 55 cubic feet per second. This compares with the average flow at the USGS gaging station, just upstream of the Island Landfill, in 1982 of 98.8 cfs which covered a range that varied from a high of 1,560 cfs to a low of 19 cfs. The average discharge measured at the gaging station over the last 62 years was 130 cfs.

Your last question concerns a list of chemicals which allegedly have been disposed in the Island Landfill. We have determined that this list you referred to is part of a 1980 submission to the U.S. EPA entitled "Notification of Hazardous Waste Activity." In Section IX, we listed each chemical substance that we handle in our production operations that might ultimately become a hazardous waste. A copy of this list with an explanation of the method of handling or disposal of each potential waste stream is attached for your information.

As you can see when you review this list, it confirms that the Island Landfill is not a pollution source to the ground water recharge to the Davidson River and that ground water monitoring is unnecessary for this site.

If further information or a clarification of any of these issues are needed, please advise us in writing. Again, thank you for giving us the opportunity to work with you to find a satisfactory solution to your concerns.

Sincerely,

ECUSTA PAPER AND FILM GROUP  
OLIN CORPORATION

Controlled by  
R. J. Gussman, Director  
Environmental Control  
And Industrial Hygiene

/bh

enclosure

cc: Mr. James Moore  
Black Mountain, North Carolina

CONTAINED IN U.S. EPA "NOTIFICATION OF  
HAZARDOUS WASTE ACTIVITY" (OMB NO. 158-S79016)

Section IX-A

Hazardous wastes from nonspecific sources.

F005 - Spent non-halogenated solvents, toluene, carbon disulfide, and still bottoms from recovery of these solvents.

The facility generating these wastes was built in 1951. From 1951 through 1956, their wastes were incinerated. After 1956, these wastes were either recycled or sold to Resource Recovery.

Section IX-C

Commercial chemical products, this facility handles:

P022	- Carbon Disulfide	Same as F005.
P035	- 2, 4 Dichlorophenoxy Acetic Acid	Trace contaminant in weed killer, has never been disposed of in island landfill.
U002	- Acetone	Same as F005.
U229	- Freon 11	Present in gaseous form only.
U151	- Mercury	From thermometers, pressure gages, and etc.
U075	- Freon 12	Same as U229.
U122	- Formaldehyde	Present as trace contaminant in raw materials.
U135	- H <sub>2</sub> S	Same as U229.
U213	- Tetrahydrofuran	Same as F005.
U220	- Toluene	Same as F005.
U147	- Maleic Anlydride	Very small amounts discharged into wastewater treatment plant.
U228	- Trichloroethylene	Same as U147.
U069	- di-butyl Phthalate	Same as U147.
U239	- Xylene	Same as U147.
U202	- Saccharin	Same as U147.
U223	- Toluene Diisocyanate	Same as U122.
U112	- Ethyl Acetate	Same as F005.

U229	-	111 - Trichloroethane	Same as U147.
U159	-	Methyl Ethyl Ketone	Component of wood dough used in Carpenter Shop.
U171	-	2-Nitropropane	Same as F005.
U154	-	Methyl Alcohol	Same as F005.