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N.C. Dept. of EHNH

JUL - 5 1994

Winston-Salem  
Regional Office

***TANK CLOSURE REPORT***

The Pantry #208  
4350 Thomasville Road  
Winston-Salem, North Carolina 27107

SPATCO Work Order #90005140

***PREPARED FOR:***

Mrs. Doris Bridges  
The Pantry, Incorporated  
1801 Douglas Drive  
Sanford, North Carolina 27330

***PREPARED BY:***

SPATCO Environmental  
5100 North I-85, Suite 7  
Charlotte, North Carolina 28206

June 27, 1994

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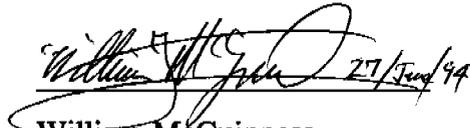
Figure 1	USGS Quadrangle Map
Figure 2	Site Plan

## **APPENDICES**

Appendix I	30-day Notification of Intent of Closure (GW/UST-3 Form)
Appendix II	Certificate of Disposal
Appendix III	Laboratory Results and Chain of Custody
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## CERTIFICATION

This report has been prepared under the guidance of a North Carolina Licensed Geologist to meet the requirements of the North Carolina Department of Environment, Health and Natural Resources. The information and conclusions expressed in this report are based upon normal standards of the profession and limited to information available at this time. Chemical analyses of samples associated with this report were performed by a subcontracted independent certified laboratory. Laboratory results have been accepted on the basis of subcontractor's internal laboratory procedures and should be considered qualitative unless verified with appropriate QA/QC samples analysis.

  
William McGuinness  
Senior Hydrogeologist  
NC Licensed Geologist #1160



## **1.0 UNDERGROUND STORAGE TANK EXCAVATION AND REMOVAL**

On June 8, 1994, SPATCO Environmental excavated and disposed of two (2) 10,000-gallon underground storage tanks (USTs) from the Pantry site at 4350 Thomasville Road in Winston-Salem, North Carolina. Figure 1 is a copy of the USGS 7½' quadrangle map for Winston-Salem East showing the location of the site. Table I summarizes relevant information pertaining to the USTs.

Prior to tank removal, a Notification of Intent of Closure (30-day Notice) was filed with the NCDEHNR on May 4, 1994. A copy of the notification is attached in Appendix I. Local fire marshall permits were required prior to tank closure and are included in Appendix I. Immediately before tank excavation, the USTs were inerted with dry ice and product lines were purged with nitrogen following API recommended guidelines.

The USTs were transported by Southern Tank and Environmental to their disposal facility for proper disposal. A certificate of disposal of the USTs is included in Appendix II.

## **2.0 SOIL SAMPLING/FIELD SCREENING**

Soils encountered during excavation were primarily red silt. Bedrock was not encountered. Soil samples were obtained from the undisturbed soil within the excavation pits using the excavator bucket. Additionally, soil samples were obtained in the vicinity of a pump island and product lines adjacent to the USTs. Figure 2 is a site plan showing the former tank and sampling locations. New, disposable, latex gloves were worn during each transfer of soil from the excavator bucket to the glass containers.

After collection, soil samples were divided into two representative portions. The first portion of each sample was placed in a polyethylene bag for at least five minutes. An OVA was used to screen the head space of the bagged sample. Data is presented in Table II.

The second portion of the soil samples collected during tank closure was placed in an appropriate glass container and sealed with a Teflon® lined cap. The soil samples were maintained at

approximately 4°C for laboratory analysis. Samples were shipped to Hydrologic, Incorporated and analyzed for the following:

- Total Petroleum Fuel Hydrocarbons (TPFH), EPA Method 5030

Proper Chain of Custody procedures were followed. The Chain of Custody and laboratory analysis is attached in Appendix III and are summarized in Table II.

### **3.0 LABORATORY RESULTS**

Referring to Table II, all soil samples collected contained no detectable concentrations of TPH.

### **4.0 CONCLUSION**

Based on the NCDEHNR regulations, SPATCO Environmental anticipates the NCDEHNR will require no further action or additional assessments. A completed UST-2 form is attached in Appendix IV.

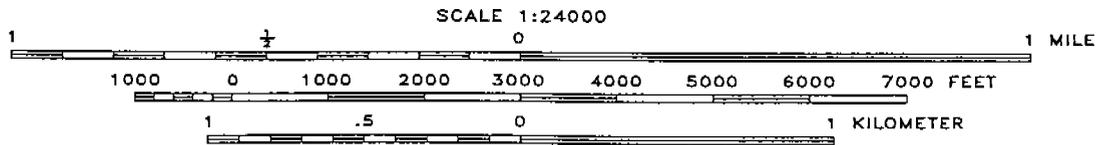
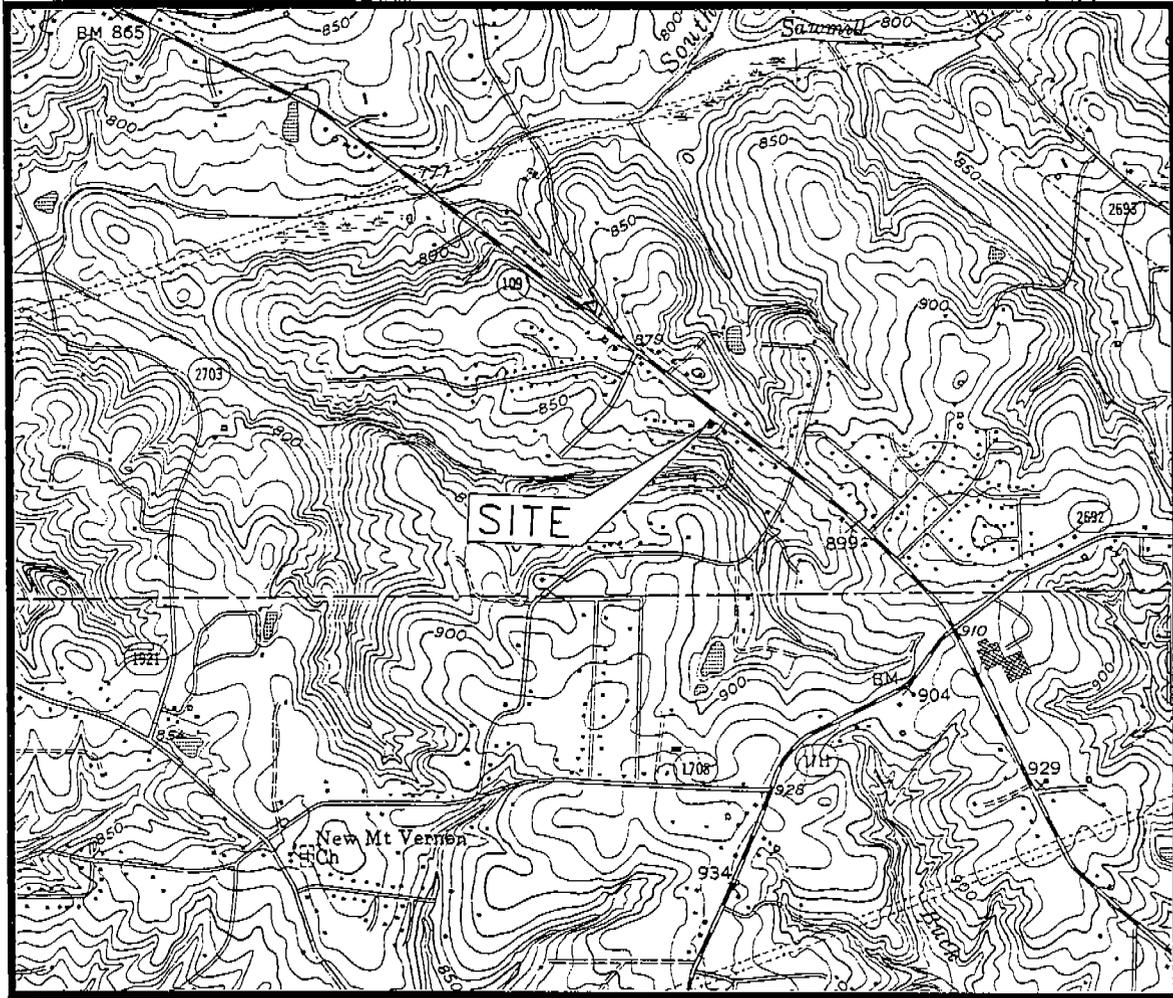
Table I. Underground Storage Tank Data				
Tank #	Composition	Dimensions (D x L)	Volume (gallons)	Stored Product
1	Steel	10'6" x 31'0"	10,000	Gasoline
2	Steel	10'6" x 31'0"	10,000	Gasoline

Table II. OVA Readings and Soil Sample Laboratory Results			
Sample #	Sample Depth (feet)	OVA Reading (ppm)	TPFH 5030 (mg/Kg)
GT 1	14	0	BDL
GT 2	14	0	BDL
GT 3	14	2	BDL
GT 4	14	0	BDL
GT 5	14	0	BDL
GT 6	14	0	BDL
GP 1	3	0	BDL
GP 2	3	0	BDL

BDL = below detection limit

ppm = parts per million

FIGURES



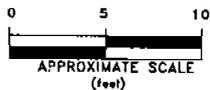
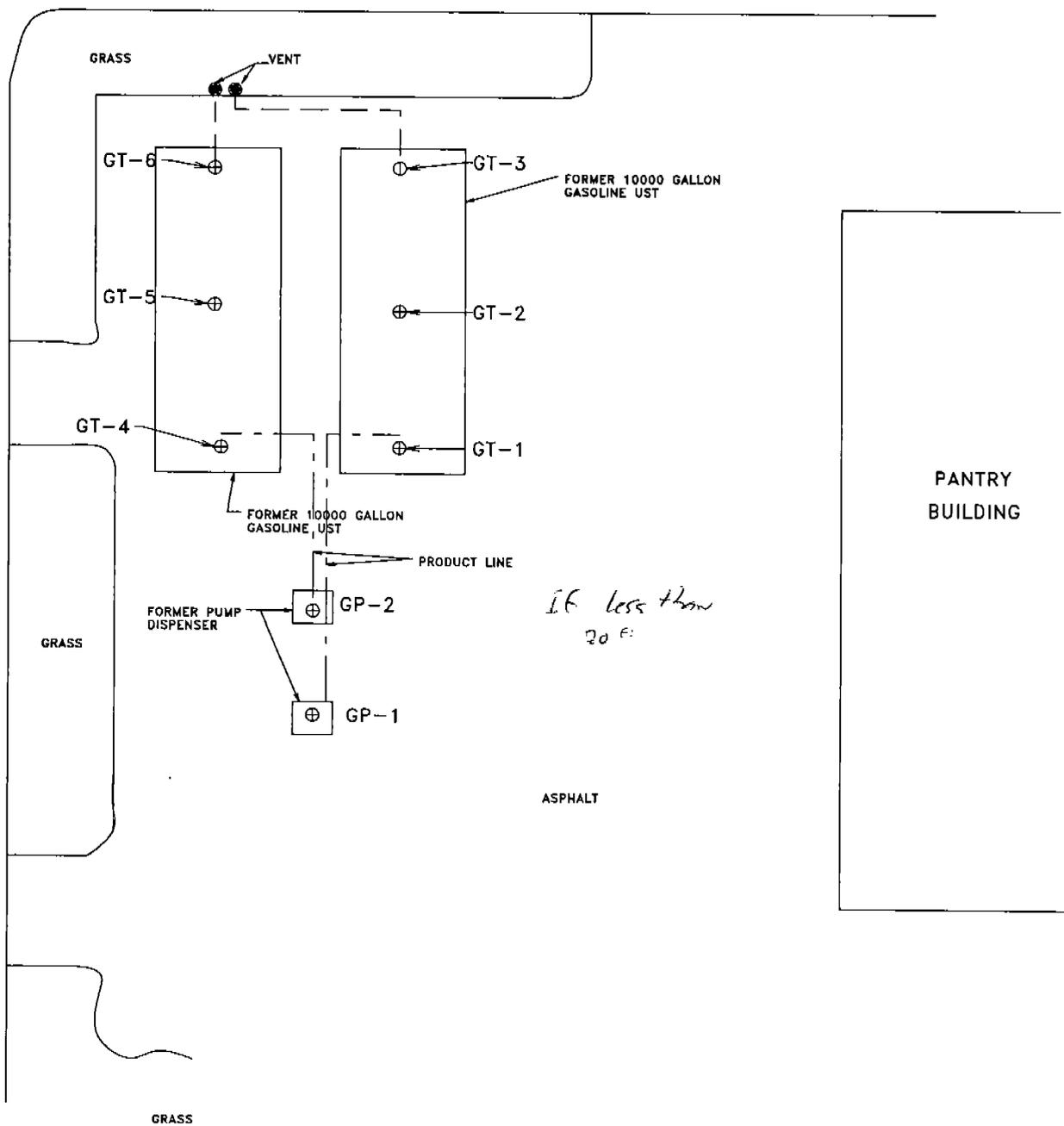
**SPATCO** environmental

FIGURE 1: SITE LOCATION MAP  
THE PANTRY #208  
4350 THOMASVILLE ROAD  
WINSTON-SALEM, NC

WO #9-5096	DATE: 6-24-94 DRAWN BY: RMC
------------	--------------------------------

MARANDA ROAD

HIGHWAY 109



SPATCO environmental

FIGURE 2: SITE MAP  
 SITE: THE PANTRY #208  
 LOCATION: 4350 THOMASVILLE ROAD  
 CITY: WINSTON-SALEM, NC

WO #9-5140  
 DWG #

DATE: 6-24-94  
 DRAWN BY: RMC

APPENDIX I

# GW/UST-3 Notice of Intent: UST Permanent Closure or Change-In-Service

FOR TANKS IN NC

Return Completed Form To:  
The appropriate DEM Regional Office according to the county of the facility's location. [SEE REVERSE SIDE OF OWNER'S COPY (PINK) FOR REGIONAL OFFICE ADDRESS].

State Use Only  
NO. Number of EHNR  
Date Received  
MAY 11 1994

### INSTRUCTIONS

Complete and return thirty (30) days prior to closure or change-in-service. Winston-Salem Regional Office

#### I. OWNERSHIP OF TANK(S)

Tank Owner Name: The Pantey, Inc  
Street Address: 1801 Douglas Dr  
County: Lee  
City: Sanford State: NC Zip Code: 27330  
Tel. No. (Area Code): 919-774-6700

#### II. LOCATION OF TANK(S)

Facility Name or Company: The Pantey # 208  
Facility ID # (if available): 0-016908  
Street Address or State Road: 4350 Thomasville Rd  
County: Forsyth City: Winston-Sale Zip Code: 27107  
Tel. No. (Area Code): 910-788-8021

#### III. CONTACT PERSON

Name: Doris Bridges Job Title: Dir. Gasoline MKtg Telephone Number: (919) 774-6700 Ex. 21

#### IV. TANK REMOVAL, CLOSURE IN PLACE, CHANGE-IN-SERVICE

- Contact Local Fire Marshall.
- Plan the entire closure event.
- Conduct Site Soil Assessments.
- If Removing Tanks or Closing in Place refer to API Publications 2015 "Cleaning Petroleum Storage Tanks" & 1604 "Removal & Disposal of Used Underground Petroleum Storage Tanks".
- Provide a sketch locating piping, tanks and soil sampling locations.
- Fill out form GW/UST-2 "Site Investigation Report for Permanent Closure" and return within 30 days following the site investigation.
- The site assessment portion of the tank closure must be conducted under the supervision of a Professional Engineer or Licensed Geologist. After January 1, 1994, all closure site assessment reports must be signed and sealed by a P.E. or L.G.
- Keep closure records for 3 years.

#### V. WORK TO BE PERFORMED BY:

(Contractor) Name: SPATCO Environmental  
Address: 130 Penmarc Dr, Unit 112 State: Raleigh, NC Zip Code: 27603-2434  
Contact: Mike Harmond Phone: 919-832-2535  
Primary Consultant: Mike Harmond Phone: 919-832-2535

#### VI. TANK(S) SCHEDULED FOR CLOSURE OR CHANGE-IN-SERVICE

TANK ID#	TANK CAPACITY	LAST CONTENTS	PROPOSED ACTIVITY		
			Removal	Abandonment In Place	CHANGE-IN-SERVICE New Contents Stored
<u>1</u>	<u>10,000</u>	<u>Regular Unleaded Gasoline</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<u>2</u>	<u>10,000</u>	<u>Premium Unleaded Gasoline</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	

#### VII. OWNER OR OWNER'S AUTHORIZED REPRESENTATIVE

Print name and official title: Doris Bridges, Director Gasoline MKtg \*Scheduled Removal Date: June '94  
Signature: Doris H. Bridges Date Submitted: 5-4-94

If scheduled work date changes, notify your appropriate DEM Regional Office 48 hours prior to originally scheduled date

APPENDIX II

# SOUTHERN TANK & ENVIRONMENTAL, INC.

## CERTIFICATE OF DISPOSAL

FEDERAL/CERTIFICATE # 56-1669418/9938 DATE 6/9/94

### CONTRACTOR

SPATCO Environmental, Inc.  
130 Penmare Dr., Ste 112  
Raleigh, N.C. 27603

### LOCATION

The Pantry #208  
4350 Thomasville Rd.  
Winston-Salem, N.C.

TYPE OF TANK	SIZE	CONTENT IN GAL.	TANK ID#
<u>UST 10,000 gallon</u>	<u>8' x 26'8"</u>	<u>Less than 1%</u>	<u>STDS-3554</u>
<u>UST 10,000 gallon</u>	<u>8' x 26'8"</u>	<u>Less than 1%</u>	<u>STDS-3555</u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>

Southern Tank & Environmental, Inc. certifies that the above mentioned tanks have been properly disposed of at 319 Lawyers Rd., Indian Trail, NC, and the contents and sludges processed in full compliance with Local, State and Federal regulations.

Southern Tank & Environmental, Inc.

  
\_\_\_\_\_  
Randy L. Williams

**APPENDIX III**

H Y D R O L O G I C , I N C .

June 15, 1994

**REPORTING:**

SPATCO - Kernersville  
556 L Arbor Hill Road  
Kernersville, NC 27284

Attention: Bob Callinan

**INVOICING:**

SPATCO - Kernersville  
556 L Arbor Hill Road  
Kernersville, NC 27284

**PROJECT NUMBER:** FL94-7546

**DATE COMPLETED:** June 15, 1994

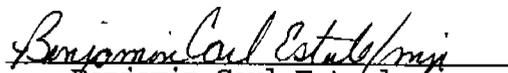
**DATE RECEIVED:** June 10, 1994

**PROJECT DESCRIPTION:**

#5140-Pantry W-S--8 soil samples to be analyzed for 5030, sampled on 06/08/94.

Enclosed is the laboratory report for the project described above. If you have any questions or if we can be of further assistance, please feel free to contact Billie Wakefield. We appreciate your business and look forward to serving you again soon.

Respectfully,

  
Benjamin Carl Esterle  
Laboratory Director

H Y D R O L O G I C , I N C .

COMPANY NAME: SPATCO - Kernersville  
COMPANY PROJECT NUMBER: #5140-PANTRY W-S  
  
HYDROLOGIC PROJECT NUMBER: FL94-7546  
HYDROLOGIC SAMPLE NUMBER: 7546  
HYDROLOGIC LAB I.D.#: 399  
SAMPLE IDENTIFICATION: GT 3  
DATE SAMPLED: 6/8/94  
DATE EXTRACTED: N/A  
DATE/TIME ANALYZED: 6/14/94

METHOD TPH 5030

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (mg/kg)	<u>RESULT</u> (mg/kg)
Gasoline		2.0	BDL

BDL = Below Sample Detection Limit  
SDL = Sample Detection Limit

COMMENTS: \_\_\_\_\_

H Y D R O L O G I C , I N C .

COMPANY NAME: SPATCO - Kernersville  
COMPANY PROJECT NUMBER: #5140-PANTRY W-S  
  
HYDROLOGIC PROJECT NUMBER: FL94-7546  
HYDROLOGIC SAMPLE NUMBER: 7547  
HYDROLOGIC LAB I.D.#: 399  
SAMPLE IDENTIFICATION: GT 2  
DATE SAMPLED: 6/8/94  
DATE EXTRACTED: N/A  
DATE/TIME ANALYZED: 6/14/94

METHOD TPH 5030

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (mg/kg)	<u>RESULT</u> (mg/kg)
Gasoline		2.0	BDL

BDL = Below Sample Detection Limit  
SDL = Sample Detection Limit

COMMENTS: \_\_\_\_\_

H Y D R O L O G I C , I N C .

COMPANY NAME: SPATCO - Kernersville  
COMPANY PROJECT NUMBER: #5140-PANTRY W-S  
HYDROLOGIC PROJECT NUMBER: FL94-7546  
HYDROLOGIC SAMPLE NUMBER: 7548  
HYDROLOGIC LAB I.D.#: 399  
SAMPLE IDENTIFICATION: GF 1  
DATE SAMPLED: 6/8/94  
DATE EXTRACTED: N/A  
DATE/TIME ANALYZED: 6/14/94

METHOD TPH 5030

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (mg/kg)	<u>RESULT</u> (mg/kg)
Gasoline		2.0	BDL

BDL = Below Sample Detection Limit  
SDL = Sample Detection Limit

COMMENTS: \_\_\_\_\_

H Y D R O L O G I C , I N C .

COMPANY NAME: SPATCO - Kernersville  
COMPANY PROJECT NUMBER: #5140-PANTRY W-S  
HYDROLOGIC PROJECT NUMBER: FL94-7546  
HYDROLOGIC SAMPLE NUMBER: 7549  
HYDROLOGIC LAB I.D.#: 399  
SAMPLE IDENTIFICATION: GT 4  
DATE SAMPLED: 6/8/94  
DATE EXTRACTED: N/A  
DATE/TIME ANALYZED: 6/14/94

METHOD TPH 5030

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (mg/kg)	<u>RESULT</u> (mg/kg)
Gasoline		2.0	BDL

BDL = Below Sample Detection Limit  
SDL = Sample Detection Limit

COMMENTS: \_\_\_\_\_

H Y D R O L O G I C , I N C .

COMPANY NAME: SPATCO - Kernersville  
COMPANY PROJECT NUMBER: #5140-PANTRY W-S  
  
HYDROLOGIC PROJECT NUMBER: FL94-7546  
HYDROLOGIC SAMPLE NUMBER: 7550  
HYDROLOGIC LAB I.D.#: 399  
SAMPLE IDENTIFICATION: GT 5  
DATE SAMPLED: 6/8/94  
DATE EXTRACTED: N/A  
DATE/TIME ANALYZED: 6/14/94

METHOD TPH 5030

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (mg/kg)	<u>RESULT</u> (mg/kg)
Gasoline		2.0	BDL

BDL = Below Sample Detection Limit  
SDL = Sample Detection Limit

COMMENTS: \_\_\_\_\_

H Y D R O L O G I C , I N C .

COMPANY NAME: SPATCO - Kernersville  
COMPANY PROJECT NUMBER: #5140-PANTRY W-S  
  
HYDROLOGIC PROJECT NUMBER: FL94-7546  
HYDROLOGIC SAMPLE NUMBER: 7551  
HYDROLOGIC LAB I.D.#: 399  
SAMPLE IDENTIFICATION: GT 6  
DATE SAMPLED: 6/8/94  
DATE EXTRACTED: N/A  
DATE/TIME ANALYZED: 6/14/94

METHOD TPH 5030

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (mg/kg)	<u>RESULT</u> (mg/kg)
Gasoline		2.0	BDL

BDL = Below Sample Detection Limit  
SDL = Sample Detection Limit

COMMENTS: \_\_\_\_\_

H Y D R O L O G I C , I N C .

COMPANY NAME: SPATCO - Kernersville  
COMPANY PROJECT NUMBER: #5140-PANTRY W-S  
HYDROLOGIC PROJECT NUMBER: FL94-7546  
HYDROLOGIC SAMPLE NUMBER: 7552  
HYDROLOGIC LAB I.D.#: 399  
SAMPLE IDENTIFICATION: GP-2  
DATE SAMPLED: 6/8/94  
DATE EXTRACTED: N/A  
DATE/TIME ANALYZED: 6/14/94

METHOD TPH 5030

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (mg/kg)	<u>RESULT</u> (mg/kg)
Gasoline		2.0	BDL

BDL = Below Sample Detection Limit  
SDL = Sample Detection Limit

COMMENTS: \_\_\_\_\_

H Y D R O L O G I C , I N C .

COMPANY NAME: SPATCO - Kernersville  
COMPANY PROJECT NUMBER: #5140-PANTRY W-S  
  
HYDROLOGIC PROJECT NUMBER: FL94-7546  
HYDROLOGIC SAMPLE NUMBER: 7553  
HYDROLOGIC LAB I.D.#: 399  
SAMPLE IDENTIFICATION: GP 1  
DATE SAMPLED: 6/8/94  
DATE EXTRACTED: N/A  
DATE/TIME ANALYZED: 6/14/94

METHOD TPH 5030

<u>ANALYSIS</u>	<u>CAS NO.</u>	<u>SDL</u> (mg/kg)	<u>RESULT</u> (mg/kg)
Gasoline		2.0	BDL

BDL = Below Sample Detection Limit  
SDL = Sample Detection Limit

COMMENTS: \_\_\_\_\_

RECEIVED JUN 21 1994



94.7546

COMPANY NAME SPATCO ESTD RUMED CONTACT NAME BOB CALLINAN TELEPHONE NO. 910 996 0573

ANALYSIS

Project No:	Sampler: Print Name	Signature	Composite	Grab	Date	Time	Sample Type				No. of Containers	REMARKS
							Water	Liquid	Oil	Solid		
5190 - PANTEX W-5	BOB CALLINAN	Bob Callinan										
GT 3	PANTEX W-5		✓	✓	6/8/94	100				✓	✓	5030
GT 2			✓	✓		105				✓	✓	
GT 1			✓	✓		110				✓	✓	
GT 4			✓	✓		115				✓	✓	
GT 5			✓	✓		120				✓	✓	
GT 6			✓	✓		125				✓	✓	
GP-2			✓	✓		495				✓	✓	
GP 1			✓	✓		450				✓	✓	

COMMENTS:

Relinquished by: (Signature) *Bob Callinan* Date: 6-9-94 Time: 340 Received by: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Relinquished by: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received by: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Dispatched by: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received for Laboratory by: *Christy Bunge* Date: 6/10/94 Time: 9:30

Method of Shipment: *Fed Ex. 905 7193681*

APPENDIX IV

**(GW/UST-2) Site Investigation Report For Permanent Closure or Change-in-Service of U.S.T.**

FOR ANKS IN NC

Return Completed Form To:  
The appropriate DEM Regional Office according to the county of the facility's location.  
[SEE MAP ON REVERSE SIDE OF OWNER'S COPY (PINK) FOR REGIONAL OFFICE ADDRESS].

State Use Only  
I.D. Number \_\_\_\_\_  
Date Received \_\_\_\_\_

**INSTRUCTIONS**  
Complete and return within (30) days following completion of site investigation.

I. Ownership of Tank(s)	II. Location of Tank(s)
Owner Name (Corporation, Individual, Public Agency, or Other Entry) The Pantry, INC. Street Address 1301 DOUGLAS DRIVE County Sanford N.C. 2780 City State Zip Code 19-774 6700 Area Code Telephone Number	Facility Name or Company The Pantry #208 Facility ID # (if available) 0-016908 Street Address, or State Road 4350 THAMESVILLE ROAD County City Zip Code FORSYTH WINSTON-SALEM 27107 910-788-8021 Area Code Telephone Number

**III. Contact Person**

Name: DORIS BRIDGES Job Title: DIR. GASOLINE Mktg. Telephone No. (Area Code): 919-774-6700 EXT 20  
 Closure Contractor: SPATCO ESD 556-L ARBUR HILL ROAD KERNERSVILLE N.C. 27284 Telephone No. (Area Code): 910-996-0573  
 Name: HYDROLOGIC INC. 1491 TWILIGHT TRAIL FRANKFORT K. 40601 Telephone No. (Area Code): 502-223-0251

Tank No.	Size in Gallons	Tank Dimensions	Last Contents	Water in Excavation		Free Product		Noticeable Odor or Visible Soil Contamination	
				Yes	No	Yes	No	Yes	No
	10000	10'6" x 31'0"	GASOLINE		—		✓		✓
1	10000	10'6" x 31'0"	GASOLINE		✓		—		—

See reverse side of pink copy (owner's copy) for additional information required by N.C. - DEM in the written report and sketch.

**VII. Check List**  
Check the activities completed.

<input checked="" type="checkbox"/> Contact local fire marshal <input checked="" type="checkbox"/> Notify DEM Regional Office before abandonment <input checked="" type="checkbox"/> Drain & flush piping into tank <input checked="" type="checkbox"/> Remove all product and residuals from tank <input checked="" type="checkbox"/> Excavate down to tank <input checked="" type="checkbox"/> Clean and inspect tank <input checked="" type="checkbox"/> Remove drop tube, fill pipe, gauge pipe, vapor recovery tank connections, submersible pumps and other tank fixtures. <input checked="" type="checkbox"/> Cap or plug all lines except the vent and fill lines. <input checked="" type="checkbox"/> Purge tank of all product & flammable vapors. <input checked="" type="checkbox"/> Cut one or more large holes in the tanks. <input checked="" type="checkbox"/> Backfill the area. Date Tank(s) Permanently closed: 6-8-94 Date of Change-in-Service: _____	<b>ABANDONMENT IN PLACE</b> <input type="checkbox"/> Fill tank until material overflows tank opening; <input type="checkbox"/> Plug or cap all openings; <input type="checkbox"/> Disconnect and cap or remove vent line <input type="checkbox"/> Solid inert material used - specify: _____  <b>REMOVAL</b> <input checked="" type="checkbox"/> Create vent hole. <input type="checkbox"/> Label tank <input checked="" type="checkbox"/> Dispose of tank in approved manner Final tank destination: SOUTHERN TANK & ENVIRONMENTAL
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**VIII. Certification (Read and Sign)**

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

Name and official title of owner or owner's authorized representative: DOB CALLINAN, STAFF GEOLOGIST, SPATCO ESD.  
 Signature: \_\_\_\_\_ Date Signed: \_\_\_\_\_