



CERTIFIED MAIL

RECEIVED

January 4, 1999

JAN 7 1999

Mr. Keith Puckett
Fayetteville Regional Office
North Carolina Department of Environment and Natural Resources
Division of Waste Management
Wachovia Bldg, Ste. 714
Fayetteville, NC 28301

FAYETTEVILLE

LSA
PIRF

RE: UST Closure Report
Convenient Food Mart #5433
205 West Morganton Road
Southern Pines, Moore County, NC 28387
Telephone # (919) 692-1616
Facility ID# 0-023516

Dear Mr. Puckett:

Handex of the Carolinas, Inc. (Handex), has prepared this report documenting permanent closure of an underground storage tank (UST) at the above referenced facility on behalf of the UST owner, Dairy Mart Convenience Stores, Inc. (Dairy Mart).

If you should have any questions or require additional information, do not hesitate to contact either of the undersigned at (704) 598-7900.

Respectfully submitted,

HANDEX OF THE CAROLINAS, INC.

Duane A. Piranio, L.G.
Project Hydrogeologist

Christopher J. Ward, L.G.
Project Manager

Enc: UST Closure Report

Cc: Michelle Salvator - Dairy Mart

**FOR
TANKS
IN
NC**

Return Completed Form To:
The appropriate DWQ 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)

Owner Name: Dairy Mart Convenience Stores
~~dba Remote Services, Inc.~~
Corporation, Individual, Public Agency, or Other Entity
Street Address: 300 Executive Pkwy. West
County: Summit
City: Hudson **State:** OH **Zip Code:** 44236
Telephone Number: (330) 342-6600
(Area Code)

II. Location of Tank(s)

Facility Name: Convenient Food Mart #5433
(or Company)
Facility ID # (if available): 0-023516
Street Address: 205 W. Morganton Road
(or State Road)
County: Moore **City:** Southern Pines **Zip Code:** 28387
Telephone Number: (919) 692-1616
(Area Code)

III. Contact Person

Name: Bob Teepen **Job Title:** Environmental Service Mgr **Tel. No.:** (330) 342-6708
Closure Contractor: Service Pump **Address:** _____ **Tel. No.:** (888) 861-2813
Primary Consultant: Handex of the Carolinas **Address:** 3600-G Woodpark Blvd, Charlotte, NC **Tel. No.:** (704) 598-7900
Lab: Paradigm Labs **Address:** 2627 Northchase Pkwy SE
Wilmington, NC 28405 **Tel. No.:** (910) 350-1557

IV. U.S.T. Information

V. Excavation Condition

VI. Additional Information Required

Tank No.	Size in Gallons	Tank Dimensions	Last Contents	Water In Excavation		Free Product		Notable Odor or Visible Soil Contamination	
				Yes	No	Yes	No	Yes	No
1	2,000	6' x 10'	Kerosene		X		X		X

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

NOTE: If a release from the tank(s) has occurred, the site assessment portion of the tank closure must be conducted under the supervision of a P.E. or L.G., with all closure site assessment reports bearing the signature and seal of the P.E. or L.G.

VII. Check List (Check the activities completed)

PERMANENT CLOSURE (For Removing or Abandoning-in-place)

- Contact local fire marshal.
 - Notify DWQ Regional Office before abandonment.
 - Drain & flush piping into tank.
 - Remove all product and residuals from tank.
 - Excavate down to tank.
 - Clean and inspect tank.
 - Remove drop tube, fill pipe, gauge pipe, vapor recovery tank connections, submersible pumps and other tank fixtures.
 - Cap or plug all lines except the vent and fill lines.
 - Purge tank of all product & flammable vapors.
 - Cut one or more large holes in the tanks.
 - Backfill the area.
- Date Tank(s) Permanently closed:** 9/23/98
Date of Change-in-Service: N/A

ABANDONMENT IN PLACE

- Fill tank until material overflows tank opening.
- Plug or cap all openings.
- Disconnect and cap or remove vent line.
- Solid inert material used - specify: _____

REMOVAL

- Create vent hole.
 - Label tank.
 - Dispose of tank in approved manner.
- Final tank destination:** GMR Inc., West End, NC

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.

Print name and official title of owner or owner's authorized representative

Signature

Date Signed

Bob Teepen - Env. Services Mgr

[Handwritten Signature]

12/18/98

RECEIVED

JAN 7 1999

FAYETTEVILLE
REG. OFFICE

**UNDERGROUND STORAGE TANK
SITE CLOSURE REPORT
Convenient Food Mart #5433
205 West Morganton Road
Southern Pines, Moore County, NC**

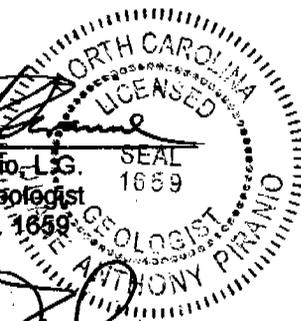
Prepared on Behalf of:

Dairy Mart Convenience Stores, Inc.
300 Executive Pkwy. W
Hudson, OH 44236

Prepared by:

Handex of the Carolinas, Inc.
3600-G Woodpark Blvd.
Charlotte, NC 28206

January 1999



Duane A. Piranio, L.G.
Project Hydrogeologist
NC License No. 1659


Christopher J. Ward, L.G.
Project Manager
NC License No. 1600

1/5/99
Date

1/5/99
Date

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TABLE 1:	Summary of UST Closure Sampling Results
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1.0 GENERAL INFORMATION

1.1 UST Ownership

Dairy Mart Convenience Stores
Dba Remote Services, Inc.
300 Executive Pkwy W
Hudson, OH 44236
Phone: (330) 342-6600

1.2 Facility Information

Convenient Food Mart #5433
Facility ID# 0-023516
205 West Morganton Road
Southern Pines, Moore County, NC 28387
Telephone # (919) 692-1616

1.3 Contacts

Primary Contact:
Dairy Mart Convenience Stores
300 Executive Pkwy W
Hudson, OH 44236
Bob Teepen
Environmental Services Manager
Phone: (330) 342-6708

Closure Contractor:
Service Pump, Inc.
P.O. Box 51146
Knoxville, TN 37950
Ken Collins
Phone: (423) 588-0522

Primary Consultant:
Handex of the Carolinas, Inc.
3600-G Woodpark Blvd.
Charlotte, NC 28206
Duane A. Piranio, L.G., Project Hydrogeologist
Phone: (704) 598-7900

Laboratory:
Paradigm Analytical Laboratories, Inc.
2627 Northchase Pkwy SE
Wilmington, NC 28405
NC Certification #481

1.4 UST Information

Tank No.	Installation Date	Size (gallons)	Dimensions (feet)	Last Contents	Previous Contents
1	unknown	2,000	~6X10	Kerosene	Kerosene

1.5 Site Characteristics

Convenient Food Mart #5433 is an active gasoline retail facility and convenience store located in a mixed residential/commercial area of Southern Pines, Moore County, North Carolina. A Site Location Map is presented as Figure 1. The underground storage tank (UST) system at the site consists of three gasoline USTs and one 2,000 gallon kerosene UST, dispensers, piping and vents. A site plan depicting the former kerosene UST location, dispenser, the soil stockpile, and other relevant features, is presented as Figure 2. Service Pump, Inc., permanently closed the 2,000-gallon kerosene UST on September 23, 1998, during UST upgrade activities performed on the three gasoline UST's which remain in service. Handex is aware of no past releases at this site. In accordance with regulatory requirements, a GW/UST-2 form documenting UST closure is attached in Appendix A.

Convenient Food Mart #5433 is located in the Coastal Plain physiographic province of North Carolina. The area topography is characterized by rolling, pine-covered hills. The area geology consists of the unconsolidated, medium- to coarse-grained, tan sands of the Pinehurst Formation. The Pinehurst Formation unconformably overlies the mixed sand, sandstone and mudstone of the Middendorf Formation (Horton and Zullo, 1991). Sediments encountered in the UST excavation consisted of reddish tan clayey sands, some or all of which may have been fill material. The depth-to-water at the site is not known. The sole monitoring well at the site has a total depth of approximately 11 feet and was dry when gauged during preliminary site investigations on August 11, 1998. No water was encountered in the UST excavation.

2.0 CLOSURE PROCEDURES

2.1 Tank Closure Preparation

A GW/UST-3 form, a copy of which is attached in Appendix B, giving notice of intent to close the UST was filed with your office at least five days prior to closure activities. No county or city permits are required for UST excavation in Southern Pines. On September 23, 1998, approximately 840 gallons of kerosene were pumped from the UST to a tanker truck for recycling prior to excavation.

2.2 Excavation

2.2.1 UST Pit

The 2,000-gallon UST was removed from a single excavation approximately 8 feet wide by 13 feet long by 10 feet deep. The top of the UST was located approximately 2 feet below the ground surface. No groundwater was encountered in the excavation. During excavation, approximately

462 cubic yards of soil was stockpiled. The soil stockpile resulted from upgrade activities being performed on the 3 gasoline USTs in addition to tank excavation activities. The kerosene UST was removed from the pit and placed on the stockpiled soil at about 10:00 a.m., September 23, 1998. The UST appeared to be in good condition. The UST was purged with dry ice and a hole was cut into the side. According to the closure contractor, no residual substances were encountered in the UST. A copy of the disposal certificate is presented in **Appendix C**. According to the disposal record, the UST was disposed at GMR Inc. in West End, North Carolina, where it was demolished for scrap. Photographs documenting closure activities are presented in **Appendix D**.

2.2.2 Dispensers, Lines & Vents

The kerosene dispenser was located approximately 19.5 feet from the tank pit edge, as depicted in **Figure 2**. The vent and product lines were grouted and abandoned in place.

2.3 Contaminated Soil

Visual and olfactory observations of the excavated area did not indicate the presence of hydrocarbons in the tank pit or in excavated soil. The volume of soil removed from the excavation was limited to that necessary to remove the kerosene UST and expose the top portions of the gasoline USTs to the extent necessary to conduct UST upgrades.

3.0 SITE INVESTIGATION

3.1 Field Screening and Observations

A total of six soil samples were collected for field screening and laboratory analyses. Two composite samples, *Stockpile 1* and *Stockpile 2*, were collected from the stockpiled soil at the locations depicted in **Figure 2**. Two samples were collected from the UST excavation floor, *Pit Floor A* and *Pit Floor B*, using the backhoe to carry the soil up to the technician who used a hand auger to collect the sample from the backhoe bucket. One sample was collected from beneath the product line where it exits the UST pit, *Product Line*, and a one sample was collected from beneath the kerosene dispenser, *Under Dispenser*.

A calibrated Foxboro 108 Flame Ionization Detector (FID) was used to field screen soil samples collected from the site. The samples were collected with a hand auger in duplicate to allow for laboratory analyses in addition to field screening. Samples to be field screened were placed in re-sealable plastic bags and allowed to equilibrate prior to screening with a FID. Each sample

occurring methane and once without a carbon filter. The filtered response was subtracted from the unfiltered response to yield a qualitative indication of hydrocarbon vapors volatilized from the soil sample. The resulting FID net response from each sample was recorded.

3.2 Laboratory Analyses

Laboratory samples were placed in laboratory provided containers, compacted to minimize volatilization, sealed with teflon lined lids, and immediately placed on ice. The Handex technician hand delivered the samples to Paradigm Analytical Laboratories in Wilmington, North Carolina, by standard chain-of-custody procedures on the morning of September 24, 1998. Samples were analyzed for low boiling point hydrocarbons (GRO-TPH) and medium boiling point hydrocarbons (DRO-TPH) by EPA methods 5030 and 3550, respectively. Laboratory analytical reports and the chain of custody is included in **Appendix E**.

Both field screening and laboratory analyses of each of the two stockpiled soil samples were below detectable levels. Laboratory analytical results indicate levels of DRO-TPH for samples *Pit Floor B* and *Under Dispenser* of 11 milligrams per kilogram (mg/kg) or ppm and 752 mg/kg, respectively. Analyses of other samples were below detectable limits. The results of the field screening and laboratory analyses are summarized in **Table 1**. The sampling locations are depicted in **Figure 2**.

3.3 Site Sensitivity Evaluation

Laboratory analytical results and field screening activities indicate the presence of hydrocarbon impacted soils beneath the former kerosene dispenser. A Site Sensitivity Evaluation was performed in accordance with NCDENR guidelines and is presented in **Appendix F**. The evaluation was performed without direct knowledge of several items. Where no information was available or no conclusion could be made based on available data, the most conservative selection was made. The resulting final cleanup levels for low boiling point and medium boiling point hydrocarbons were 40 ppm and 160 ppm, respectively.

4.0 CONCLUSION AND RECOMMENDATIONS

Handex observed the removal of one 2,000-gallon kerosene UST, one dispenser and appurtenances at the Convenient Food Mart #5433 convenience store located in Southern Pines, Moore County, on September 23, 1998. A total of six soil samples were field screened and analyzed at a certified laboratory. Excavated soil related to UST closure was limited to the volume necessary to remove the UST. There was no evidence of hydrocarbon impact to the soil stockpile and the soil stockpile was back-filled into the excavation.

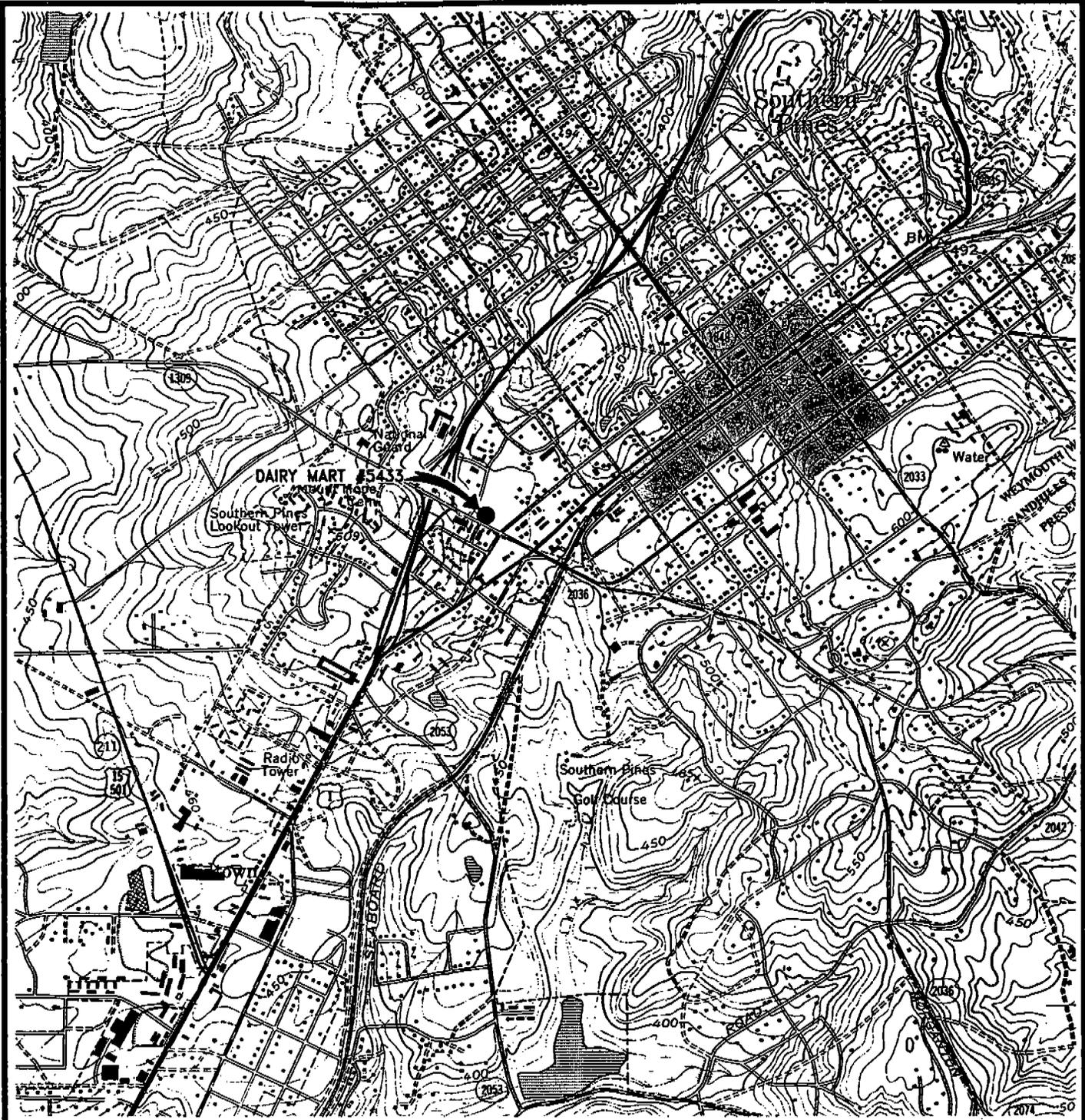
volume necessary to remove the UST. There was no evidence of hydrocarbon impact to the soil stockpile and the soil stockpile was back-filled into the excavation.

Laboratory analytical results indicate DRO-TPH concentrations of 11 mg/kg in one of two soil samples collected from the UST pit floor. Handex does not believe this result, which exceeds the NCDENR reportable standard by 1 mg/kg, warrants further action. Laboratory analytical results from a soil sample collected from beneath the dispenser reveal a concentration of 752 mg/kg for DRO-TPH.

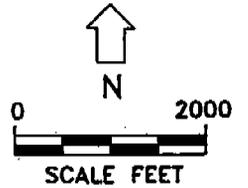
A Site Sensitivity Evaluation conservatively estimates the final cleanup level to be 40 ppm for low boiling point hydrocarbons and 160 ppm for medium boiling point hydrocarbons. The final cleanup level may be revised upward as further site-specific information, such as geology and location of potable wells, becomes available.

Handex recommends installing one soil boring at the former location of the kerosene dispenser terminated at the water table. Split-spoon soil samples should be collected every two feet and field screened. The most impacted sample and a sample collected immediately above the water table should be analyzed at a certified laboratory by EPA methods 5030 and 3550. If field observations indicate obvious potential impact to groundwater, a monitoring well should be installed within the soil boring. In addition, a receptor survey should be conducted to determine the existence and location of any potable wells within 1,500 feet of the site. The resulting information will help determine if further action is warranted.

FIGURES



SOUTHERN PINES, N.C.
 QUADRANGLE MAP
 7.5 MINUTE SERIES
 (TOPOGRAPHIC)

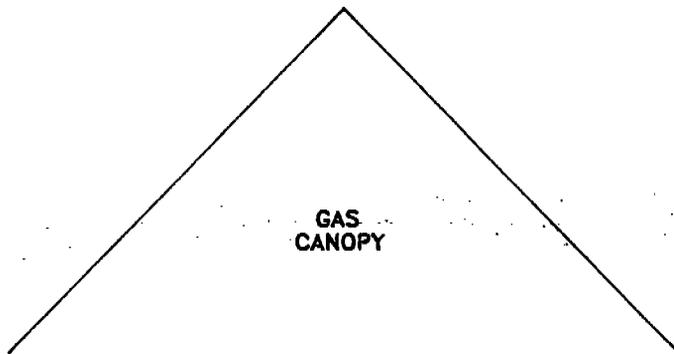
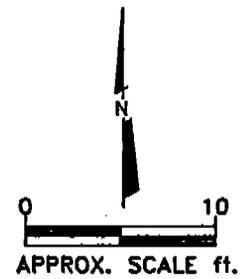
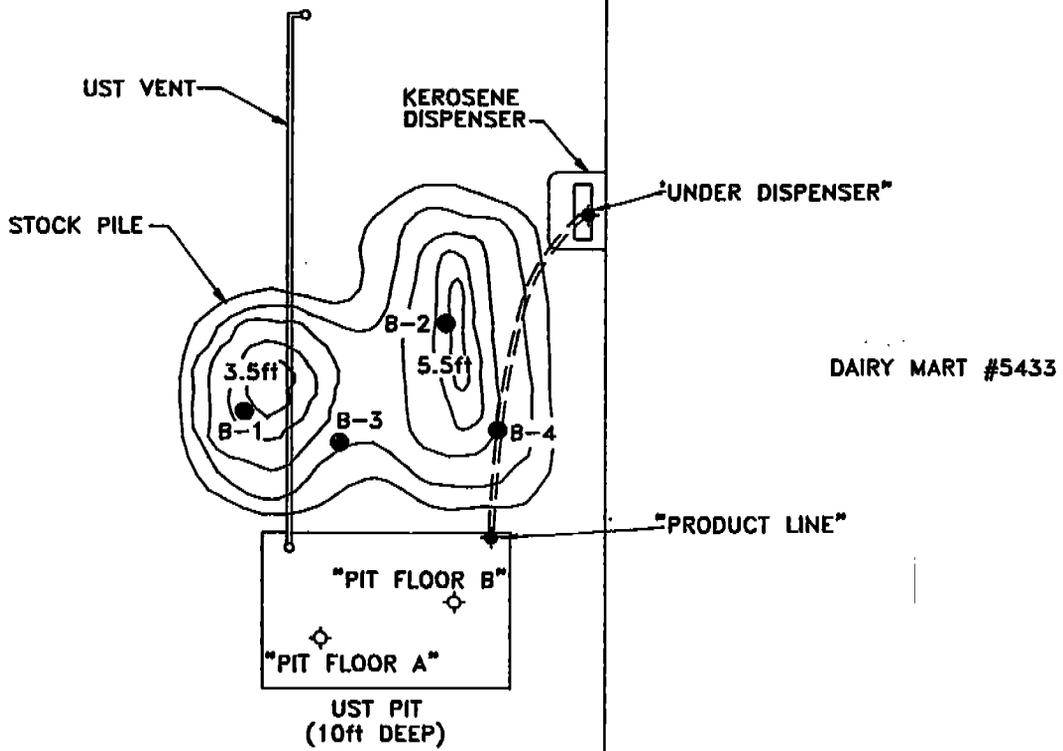


TOPOBASE.DWG



DAIRY MART #5433
 205 W. MORGANTOWN RD.
 SOUTHPINES, NORTH CAROLINA

FIGURE 1
 SITE LOCATION MAP



LEGEND	
◆	- DISPENSER SAMPLE
◇	- UST PIT FLOOR SAMPLE
●	- BORING SAMPLE FOR STOCK PILE COMPOSITE
==	- DISPENSER LINE (APPROXIMATE)
" "	- SAMPLE NAME (CORRESPONDS TO TABLE 1)

5433-1.DWG



CONVENIENT FOOD MART #5428
U.S. HIGHWAY 17
WILMINGTON, NORTH CAROLINA

FIGURE 2
SITE PLAN

TABLE

Table 1
Summary of UST Closure Sampling Results
Convenient Food Mart #5433
205 West Morganton Road
Southern Pines, Moore County, NC
Facility ID 0-023516

Sample ID	Net FID Response (ppm)	Laboratory Analytical Results	
		GRO-TPH (mg/kg) (10*)	DRO-TPH (mg/kg) (10*)
Stock Pile 1	<1	<4.4	<6
Stock Pile 2	<1	<4.2	<6
Pit Floor A	<1	<4.2	<6
Pit Floor B	<1	<4.3	11
Product Line	<1	<4.3	<6
Under Dispenser	750	<4.4	752

ppm – parts per million; mg/kg – milligrams per kilogram; * NCDENR Reportable Concentrations

APPENDIX A

GW/UST-2

FOR
TANKS
IN
NC

Return Completed Form To:
The appropriate DWQ 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: Dairy Mart Convenience Stores
Corporation, Individual, Public Agency, or Other Entity: ~~dba Remote Services, Inc.~~
Street Address: 300 Executive Pkwy. West
County: Summit
City: Hudson State: OH Zip Code: 44236
Telephone Number: (330) 342-6600
(Area Code)

Facility Name: Convenient Food Mart #5433
(or Company)
Facility ID # (if available): 0-023516
Street Address: 205 W. Morganton Road
(or State Road)
County: Moore City: Southern Pines Zip Code: 28387
Telephone Number: (919) 692-1616
(Area Code)

III. Contact Person

Name: Bob Teepen Job Title: Environmental Service Mgr Tel. No.: (330)342-6708
Closure Contractor: Service Pump Address: Tel. No.: (888)861-2813
Primary Consultant: Handex of the Carolinas Address: 3600-G Woodpark Blvd, Charlotte, NC Tel. No.: (704)598-7900
Lab: Paradigm Labs Address: 2627 Northchase Pkwy SE
Address: Wilmington, NC 28405 Tel. No.: (910)350-1557

IV. U.S.T. Information

V. Excavation Condition

VI. Additional Information Required

Tank No.	Size in Gallons	Tank Dimensions	Last Contents	Water In Excavation		Free Product		Notable Odor or Visible Soil Contamination	
				Yes	No	Yes	No	Yes	No
1	2,000	6' x 10'	Kerosene		X		X		X

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

NOTE: If a release from the tank(s) has occurred, the site assessment portion of the tank closure must be conducted under the supervision of a P.E. or L.G., with all closure site assessment reports bearing the signature and seal of the P.E. or L.G.

VII. Check List (Check the activities completed)

PERMANENT CLOSURE (For Removing or Abandoning-in-place)

- Contact local fire marshal.
 - Notify DWQ Regional Office before abandonment.
 - Drain & flush piping into tank.
 - Remove all product and residuals from tank.
 - Excavate down to tank.
 - Clean and inspect tank.
 - Remove drop tube, fill pipe, gauge pipe, vapor recovery tank connections, submersible pumps and other tank fixtures.
 - Cap or plug all lines except the vent and fill lines.
 - Purge tank of all product & flammable vapors.
 - Cut one or more large holes in the tanks.
 - Backfill the area.
- Date Tank(s) Permanently closed: 9/23/98
Date of Change-In-Service: N/A

ABANDONMENT IN PLACE

- Fill tank until material overflows tank opening.
- Plug or cap all openings.
- Disconnect and cap or remove vent line.
- Solid inert material used - specify: _____

REMOVAL

- Create vent hole.
 - Label tank.
 - Dispose of tank in approved manner.
- Final tank destination: GMR Inc., West End, NC

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.

Print name and official title of owner or owner's authorized representative: Bob Teepen - Env. Services Mgr
Signature: [Signature]
Date Signed: 12/18/98

APPENDIX B

GW/UST-3

GW/UST-3

Notice of Intent: UST Permanent Closure or Change-In-Service

FOR TANKS IN NC

Return Completed Form To:

The appropriate DWQ 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 I. D. Number Date Received

9/16/98

INSTRUCTIONS

Complete and return at least five (5) working days prior to closure or change-in-service if a Professional Engineer (P.E.) or a Licensed Geologist (L.G.) provides supervision for closure or change-in-service site assessment activities and signs and seals all closure reports. Otherwise, thirty (30) days notice is required.

I. OWNERSHIP OF TANK(S)

II. LOCATION OF TANK(S)

Tank Owner Name: Dairy Mart Convenience Stores The Remote Services Inc. Street Address: 300 Executive Pkwy. West County: Summit City: Hudson State: OH Zip Code: 44236 Tele. No. (Area Code): 330-342-6600

Facility Name or Company: Convenient Food Mart #5433 Facility ID # (if available): 0-023516 Street Address or State Road: 205 W. Morgantown Rd. County: Moore City: Southern Pines Zip Code: 28387 Tele. No. (Area Code): 919-692-1616

III. CONTACT PERSON

Name: Bob Teepen Job Title: Env. Services Mgr. Telephone Number: (330) 342-6709

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

- 1. Contact Local Fire Marshall. 2. Plan the entire closure event. 3. Conduct Site Soil Assessments. 4. If Removing Tanks or Closing in Place refer to API Publications 2015 "Cleaning Petroleum Storage Tanks" & 1604 "Removal & Disposal of Used Under-ground Petroleum Storage Tanks". 5. Provide a sketch locating piping, tanks and soil sampling locations. 6. Submit a closure report in the format of GW/UST-12 and include the form GW/UST-2 within 30 days following the site investigation. 7. If a release from the tank(s) has occurred, the site assessment portion of the tank closure must be conducted under the supervision of a P.E. or L.G., with all closure site assessment reports bearing signature and seal of the P.E. or L.G. If a release has not occurred, the supervision, signature, or seal of a P.E. or L.G. is not required. 8. Keep closure records for 3 years.

V. WORK TO BE PERFORMED BY:

(Contractor) Name: Tanknology Address: 300 Executive Parkway West, Hudson, Ohio Zip Code: 44236 Contact: Steve Chatterton Phone: 330-342-6745 Primary Consultant: Handex Environmental Phone: 800-989-5702

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

Table with columns: TANK ID#, TANK CAPACITY, LAST CONTENTS, PROPOSED ACTIVITY (CLOSURE: Removal, Abandonment In Place; CHANGE-IN-SERVICE: New Contents Stored). Includes handwritten notes: 'TANKS 2, 3 & 4 NOT SCHEDULED FOR CLOSURE' and 'TANK #1 ONLY - SCHEDULED FOR CLOSURE'.

VII. OWNER OR OWNER'S AUTHORIZED REPRESENTATIVE

Print name and official title: Bob Teepen - Environmental Services Manager *Scheduled Removal Date: 8-3-98

Signature: [Signature] Date Submitted: 7-7-98

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

APPENDIX C

Certificate of UST Disposal

USED STORAGE TANK DISPOSAL RECORD

OWNER

OWNERS NAME DAIRY MART ADDRESS _____ PHONE # 800-962-7486

LOCATION OF TANK(S) IF DIFFERENT THAN OWNERS ADDRESS _____

205 MORGANTON ROAD
SOUTHERN PLAINS N.C. 28387

FACILITY I.D.# 5433

TANK NUMBER	SIZE	SERIAL #	CONTENTS	LEL READING
<u>1</u>	<u>2000</u>	<u>N/A</u>	<u>KERO</u>	<u>< 10%</u>

REMOVAL CONTRACTOR

NAME SERVICE Pump Inc. PHONE # 800-962-7486

LICENSE/CERTIFICATION # 27731

CONTACT NAME Ken Collins TITLE CONST. MGR.

I HEREBY CERTIFY THAT THE ABOVE LISTED TANKS HAVE BEEN REMOVED IN ACCORDANCE WITH APPLICABLE INDUSTRY STANDARDS, AND HAVE BEEN PREPARED FOR SHIPMENT IN ACCORDANCE WITH THE SAME STANDARDS.

SIGNATURE Ken Collins DATE 11-2-98

DISPOSAL FACILITY

NAME GMR Inc. PHONE # 910-673-3673

ADDRESS 306 STANLEY STREET
WEST END N.C. 27376

METHOD OF DESTRUCTION CUT FOR SCRAP
DISPOSITION OF SLUDGE N/A

APPENDIX D

Photographic Log



Photo 1: Convenient Food Mart #5433



Photo 2: 2,000-gallon kerosene UST following removal.



Photo 3: Excavated soils and 2,000-gallon kerosene UST following removal.



Photo 4: UST pit and 2,000-gallon kerosene UST on soil stockpile.

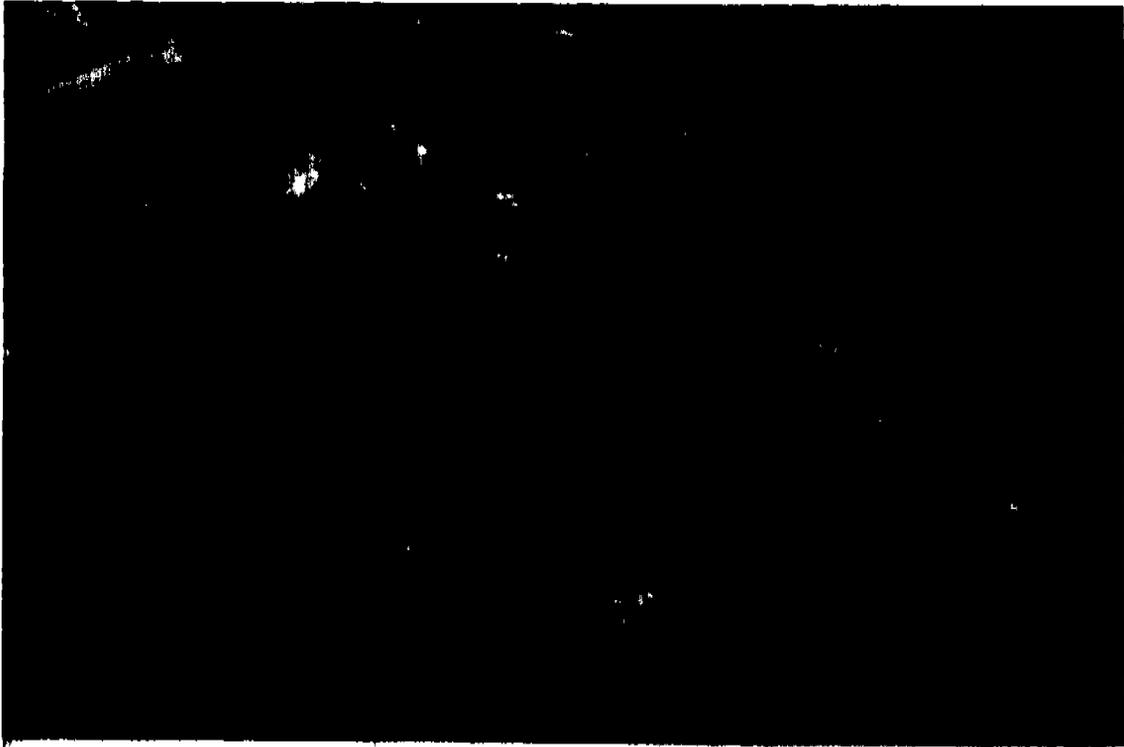


Photo 5: View of former location of kerosene dispenser.

APPENDIX E

Laboratory Analytical Reports

PARADIGM ANALYTICAL LABORATORIES, INC.
2627 Northchase Parkway S.E.
Wilmington, North Carolina 28405
(910) 350-1903
Fax (910) 350-1557

Mr. Duane Piranio
Handex of the Carolina's
3600 G Woodpark Blvd.
Charlotte, NC 28206

Date 09-30-98

Report Number: G284-1

Client Project Name : Dairy Mart;5433

Dear Mr. Piranio:

Enclosed are the results of the analytical services performed under the referenced project. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. Any samples submitted to our laboratory will be retained for a maximum of thirty (30) days from date of this report unless other arrangements are requested.

If there are any questions about the report or the services performed during this project, please call for assistance. We will be happy to answer any questions or concerns which you may have.

Thank you for using Paradigm Analytical Labs for your analytical service projects. We look forward to working with you again on any additional needs which you may have.

Sincerely,

Paradigm Analytical Laboratories



Laboratory Director
Mark Randall



PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Total Petroleum
Hydrocarbons
by GC

Client Sample ID: Stock Pile 1 Date Collected: 9/23/98
Client Project ID: Dairy Mart 5433 Date Received: 9/24/98
Lab Sample ID: 48434 Analyzed By: JPW
Lab Project ID: G284-1 %Solids: 91.6
Matrix: Soil

Compound	Result (MG/KG)	Quantitation Limit	Method	Dilution Factor	Date Analyzed
Gasoline	BQL	4.4	5030	1.0	9/24/98
Diesel#2	BQL	6	3550	1.0	9/24/98

Comments:

Quantitation Limits are fully calculated using dilution factors and % solids.
BQL = Undetected or below quantitation limit.

Reviewed By: hmn

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Total Petroleum
Hydrocarbons
by GC

Client Sample ID: Stock Pile 2 Date Collected: 9/23/98
Client Project ID: Dairy Mart 5433 Date Received: 9/24/98
Lab Sample ID: 48435 Analyzed By: JPW
Lab Project ID: G284-1 %Solids: 94.6
Matrix: Soil

Compound	Result (MG/KG)	Quantitation Limit	Method	Dilution Factor	Date Analyzed
Gasoline	BQL	4.2	5030	1.0	9/24/98
Diesel#2	BQL	6	3550	1.0	9/24/98

Comments:

Quantitation Limits are fully calculated using dilution factors and % solids.
BQL = Undetected or below quantitation limit.

Reviewed By: ms

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Total Petroleum
Hydrocarbons
by GC

Client Sample ID: Pit Floor A Date Collected: 9/23/98
Client Project ID: Dairy Mart 5433 Date Received: 9/24/98
Lab Sample ID: 48436 Analyzed By: JPW
Lab Project ID: G284-1 %Solids: 95.5
Matrix: Soil

Compound	Result (MG/KG)	Quantitation Limit	Method	Dilution Factor	Date Analyzed
Gasoline	BQL	4.2	5030	1.0	9/24/98
Diesel#2	BQL	6	3550	1.0	9/24/98

Comments:

Quantitation Limits are fully calculated using dilution factors and % solids.
BQL = Undetected or below quantitation limit.

Reviewed By: MA

PARADIGM ANALYTICAL LABORATORIES, INC.

Results for Total Petroleum
Hydrocarbons
by GC

Client Sample ID: Product Line Date Collected: 9/23/98
Client Project ID: Dairy Mart 5433 Date Received: 9/24/98
Lab Sample ID: 48439 Analyzed By: JPW
Lab Project ID: G284-1 %Solids: 92.6
Matrix: Soil

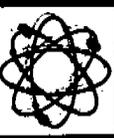
Compound	Result (MG/KG)	Quantitation Limit	Method	Dilution Factor	Date Analyzed
Gasoline	BQL	4.3	5030	1.0	9/24/98
Diesel#2	BQL	6	3550	1.0	9/24/98

Comments:

Quantitation Limits are fully calculated using dilution factors and % solids.
BQL = Undetected or below quantitation limit.

Reviewed By: hca

CHAIN OF CUSTODY RECORD



~~Environmental Laboratory~~
LABORATORY

~~Jefferson~~
Jefferson
P.O. Box 150
Allamonte Springs
Florida 32715-0597
BUS (407) 439-5984
FAX (407) 260-6110

Client: HADEX OF THE CAROLINNS

Address: 3000-G WOODPARK BLVD,

CHARLOTTE, NC 28206

Phone: 704 598 7900

FCL Client No. 1 OF 1

FCL Project Manager

FCL Lab Coordinator

Requested Due Date: RUSH

P.O. Number 116944-01

Project Name / No. DAIRY MAET 54

Contact DUANE PIRAVIO

Sampled By (PRINT):

BRAIN HOERN

Sampler Signature BRAIN HOERN

Date Sampled 9/23/98

G-284-1

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	LAB NO.
1	STOCK PILE 1	1425	SOIL	
2	STOCK PILE 2	1635		
3	PIT FLOOR A	1515		
4	PIT FLOOR B	1510		
5	UNDER DISPENSER	1600		
6	PRODUCT LINE	1530		

NO. OF CONTAINERS	PRESERVATIVES			ANALYSES REQUEST
	H ₂ SO ₄	HNO ₃	HCl	
1	X			X
1				X
1				X
1				X
1				X
1				X

TPH by EPA 5030/3530
MODIFIED 8015
GC-FID METHOD

CARRIER	BAILERS	SHIP DATES		RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
		OUT / DATE	RETURNED / DATE						
				<u>BRAIN HOERN</u>	<u>9/23/98</u>		<u>TJ McLaughlin</u>	<u>9/24/98</u>	

SPECIAL INSTRUCTIONS
- SAMPLES FROM STOCK PILE
MUST BE RUSHED!

SHIP WITH SAMPLES/TO BE RETURNED WITH RESULTS

APPENDIX F

Site Sensitivity Evaluation



Table 1
SITE SENSITIVITY EVALUATION
 Step 1 - Site Characteristics Evaluation

Characteristic	Condition	Rating	Score
1) Predominant Grain Size	Gravel Sand Silt Clay	150 <u>100</u> 50 0	100
2) Are relict structures, sedimentary structures, and/or textures present in the zone of contamination and underlying "soil"?	Present and intersecting seasonal high water table Present but <u>not</u> intersecting seasonal high water table None Present	? <u>10</u> UNKNOWN 5 0	10
3) Distance between contaminated and noncontaminated soil interface and seasonal high water table	5 - 10 feet >10 - 40 feet >40 feet	<u>20</u> 10 0	20
4) Is the top of bedrock or transmissive indurated sediments located above seasonal high water table?	Yes No	20 <u>0</u>	0
5) Are artificial conduits present within the zone of contamination?	Present & intersecting seasonal high water table Present but <u>not</u> intersecting seasonal high water table Not present	150 10 0	0

Total Site Characteristics Score: 130

