TRIAD ENVIRONMENTAL CONSULTANTS, INC. AND ASSOCIATES

3519 Clemmons Road
Clemmons, NC 27012
Telephone & Fax
(919) 766-0810

March 8, 1993

RECEIVED
MAR 9 1993

Ms. Kelly C. Gage
Guilford County Emergency Services
Post Office Box 18807
Greensboro, North Carolina 27419-8807

Re: 30,000 Gallon Fuel Oil UST Excavation
Draper Corporation, 5644 Hornaday Road
Greensboro, North Carolina

Dear Ms. Gage:

As you know, the above referenced excavation has remained open pending the results of a groundwater investigation. Also, previous attempts at soil excavation have been limited by the presence of underground utilities, overhead power lines and a concrete anchor pad. Because of the presence of these obstacles, Triad Environmental Consultants, Inc. does not believe that soil remediation by excavation is a viable strategy; therefore, we would like to backfill the excavation.

We will wait until March 12, 1993 before initiating work. If we do not hear from you before this date, we will assume that you have no objections to this course of action.

If we can be of any help to you, please contact us.

Respectfully,

Dan M. Groome

Dan M. Groome, P.G.
TRIAD ENVIRONMENTAL CONSULTANTS, INC.

DMG/kjl

cc: Mr. Denny Walker, Draper Corporation
Mr. Jimmy Summers, Guilford Mills

March 8, 1993

RECEIVED
MAR 9 1993

Report of Findings
Draper Corporation
5644 Hornaday Road
Greensboro, North Carolina

Prepared for:
Mr. Denny Walker
Draper Corporation
Hornaday Road
Greensboro, North Carolina 27419

Prepared By:
Dan M. Groome

Triad Environmental Consultants, Inc.
3519 Clemmons Road
Clemmons, North Carolina 27012

NORTH CAROLINA LICENSED SEAL 456 GEOLOGIST DAN M. GROOME

Dan M. Groome, P.G.
(Seal)

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1.0 Introduction

In response to 15A NCAC 2N .0706 of the "Notice of Regulatory Requirements" received by Draper Corporation on January 8, 1993, Triad Environmental Consultants, Inc. has completed this report detailing the findings of our investigation. The "Notice of Regulatory Requirements" was in response to a release of petroleum products (No. 4 Fuel Oil) from an underground storage tank that was removed from the site on December 16, 1992. A copy of the closure report is included as Appendix I.

As outlined in the closure report, an attempt was made to remove the impacted soils by excavation; however, due to the presence of numerous underground and above ground utilities, as well as a concrete anchor pad, excavation was limited. Soil samples were obtained and laboratory analysis of the samples indicated that petroleum hydrocarbons remain in place in the area of the excavation.

2.0 Monitoring Well Installation

On January 7, 1993, a groundwater monitoring well was installed adjacent to the former tank location as shown on Figure 2. Details of well construction are shown in Appendix II. Groundwater was encountered at a depth of 9.87 feet on January 13, 1993 and a depth of 10.72 feet on January 25, 1993.

Groundwater samples were obtained on January 8, 1993 and on January 29, 1993. Sampling procedures performed were in accordance with Triad Environmental Consultants, Inc.'s standard procedures as outlined in Appendix III. The samples were

analyzed by EPA Method 625. Table 1 summarizes the results of the analysis. Copies of the laboratory results and associated Chain of Custody records are included as Appendix IV.

Table 1

Results of Laboratory Analysis
Monitoring Well MW-6
Samples Collected January 8 and 29, 1993

Draper Corporation
5644 Hornaday Road
Greensboro, North Carolina

Sample ID	Sample Date	2,4 Dinitrophenol (ppm*)
MW-6	January 8, 1993	31
MW-6	January 29, 1993	ND**

* ppm - parts per million
** ND - Not Detected

3.0 Conclusions

The horizontal extent of soil contamination appears to be confined to the area surrounding the UST excavation. This conclusion is consistant with the fact that No. 4 fuel oil is fairly viscous and unlikely to flow any great distance through soil media. Also, the vertical extent of soil contamination is limited by the presence of groundwater at approximately 10 feet.

The results of laboratory testing of groundwater samples obtained from the nearby groundwater monitoring well (MW-6) indicate a trace of a petroleum related compound

(2,4 Dinitrophenol) in the first of two (2) sampling events. However, the second sampling indicated non-detectable quantities of all constituents targeted by EPA Method 625. These results are consistent with the fact the No. 4 fuel oil contains only minor quantities of soluble and mobile compounds. As 2,4 Dinitrophenol is lighter than water, it can be inferred that any traces present will be in the upper levels of the groundwater. Therefore, the horizontal and vertical extent of any groundwater impact is likely to be confined to the immediate vicinity of the excavation.

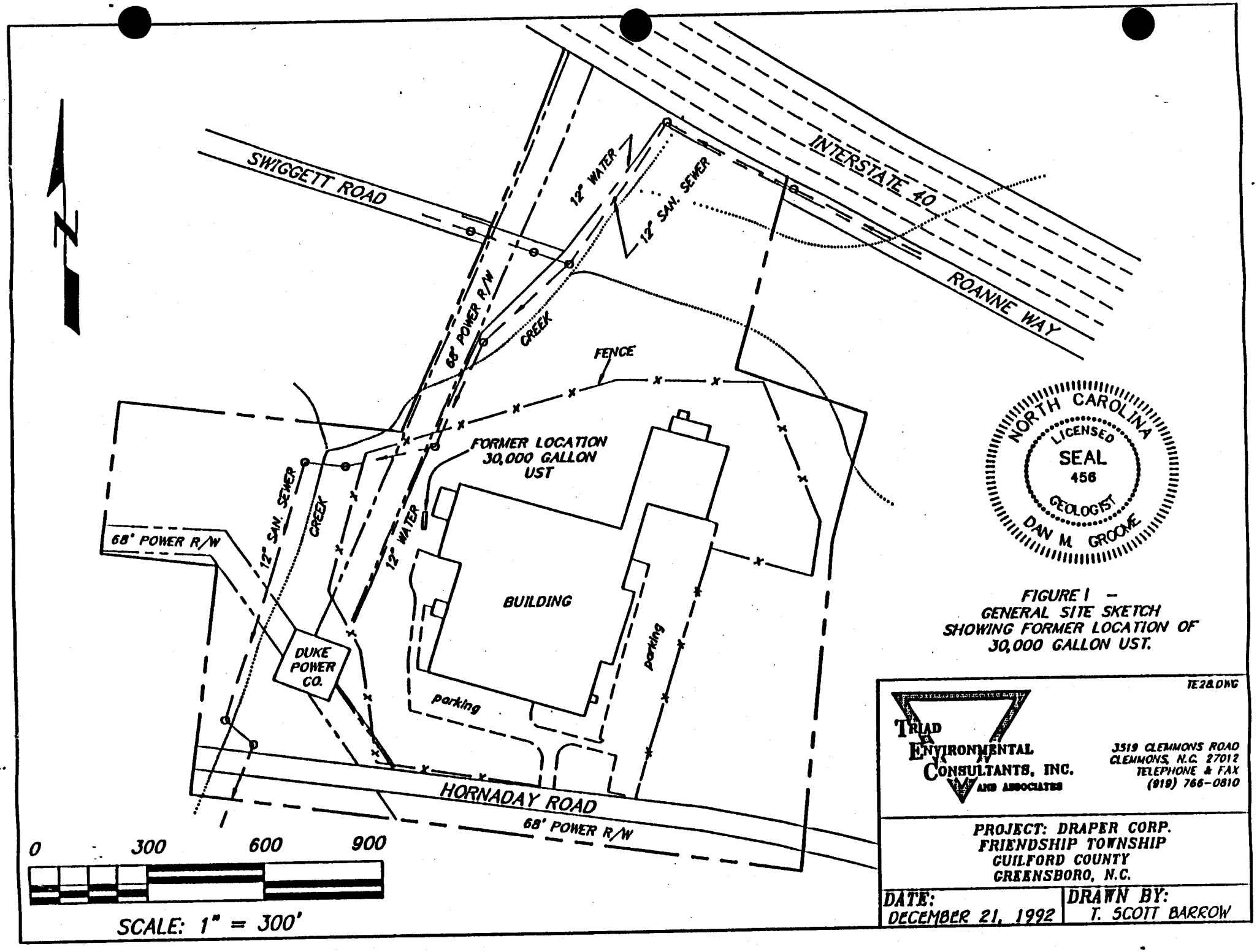

FIGURE I –
GENERAL SITE SKETCH
SHOWING FORMER LOCATION OF
30,000 GALLON UST.

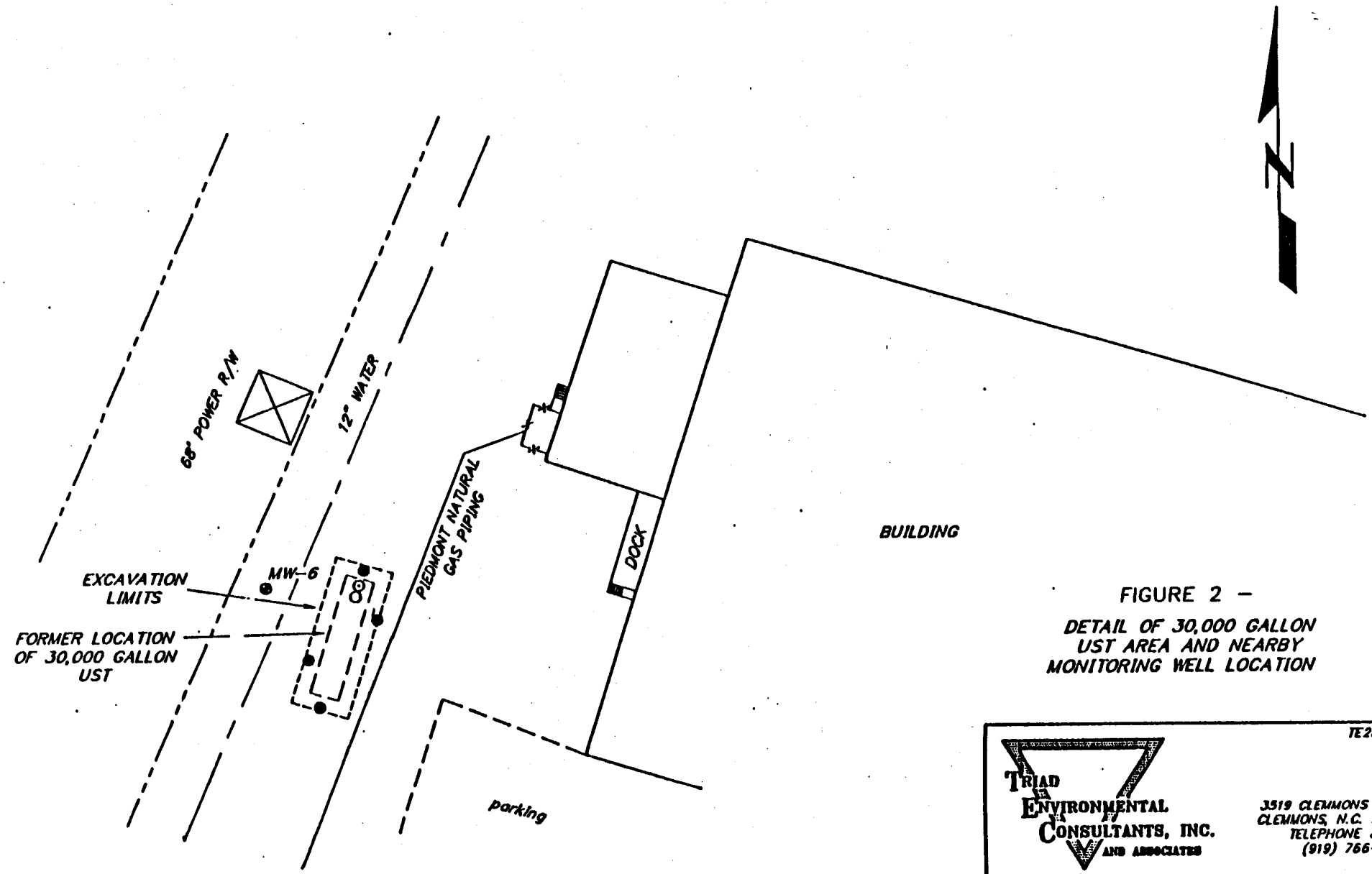

FIGURE 2 –

DETAIL OF 30,000 GALLON UST AREA AND NEARBY MONITORING WELL LOCATION

TE28.DWG

TRIAD ENVIRONMENTAL CONSULTANTS, INC. AND ASSOCIATES

3519 CLEMMONS ROAD
CLEMMONS, N.C. 27012
TELEPHONE & FAX
(919) 766-0810

PROJECT: DRAPER CORP.
FRIENDSHIP TOWNSHIP
GUILFORD COUNTY
GREENSBORO, N.C.

DATE:	DRAWN BY:
JANUARY 16, 1993	T. SCOTT BARROW

December 30, 1992

Closure Report
30,000 Gallon Fuel Oil UST
Draper Corporation
Hornaday Road
Greensboro, North Carolina

Prepared for:
Mr. Denny Walker
Draper Corporation
Hornaday Road
Greensboro, North Carolina 27419

Prepared By:
Dan M. Groome

Triad Environmental Consultants, Inc.
3519 Clemmons Road
Clemmons, North Carolina 27012

NORTH CAROLINA LICENSED SEAL 456 GEOLOGIST DAN M. GROOME

Dan M. Groome

Dan M. Groome, P.G.
(Seal)

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1.0 INTRODUCTION

On December 16, 1992, a 30,000 gallon steel UST (Underground Storage Tank) was removed from the referenced site. A location map of the site is included in this report as Figure 1 and a general site sketch is included as Figure 2. The UST had been used to store #4 fuel oil. The dimensions of the tank were 10.5 feet in diameter by 46.5 feet in length. The top of the tank was approximately three feet below the ground surface. No evidence of perforations in the surface of the UST was visible. The tank was transported to an approved disposal facility and a certification of disposal is provided as Appendix I.

2.0 PRODUCT REMOVAL PROCEDURES

On November 13, 1992, a representative of Triad Environmental Consultants, Inc. checked the UST and discovered product present in the tank. On November 30, 1992, L & M Environmental removed approximately 5700 gallons of product from the tank; however, some product that was too viscous to pump remained in the UST. On December 9, 1992 approximately 300 gallons of diesel fuel was placed in the tank for the purpose of reducing the viscosity of the product. On December 10, 1992, approximately 1000 gallons of product was removed from the UST. On December 11, 1992, removal of the UST was attempted utilizing a 60 ton capacity crane; however, the weight of the tank prevented safe removal and operations were suspended. On December 15, 1992, approximately 450 gallons of diesel fuel were placed in the tank and mixed with the remaining product. Subsequently, approximately 1700 gallons of product were removed.

Disposal manifests for the removed product are included as Appendix II. Removal of the UST occurred on December 16, 1992.

3.0 SOIL REMEDIATION

Upon excavation of the soil surrounding the UST, evidence of product leakage was observed. The source of the leakage appeared to be from the product lines. It was elected to excavate as much impacted soil as possible in an attempt to remove the contamination. However, the presence of an underground natural gas line, underground fire protection lines, overhead power lines and a concrete anchor pad limited excavation. The excavated soils were stockpiled on site in containment areas constructed of polyethylene sheeting. Subsequent to soil excavation, soil samples were obtained from the sidewalls of the excavation. Safety considerations and restricted access limited soil sampling. New, disposable latex gloves were worn during sampling in order to reduce the risk of accidental contamination. Triad Environmental Consultants, Inc.'s standard equipment decontamination and sample handling procedures are included as Appendix III. The locations of the soil samples are shown on Figure 3. The samples were split into duplicates with one part evaluated with an Organic Vapor Analyzer (OVA) and the other part placed in a new, clean jar for laboratory analysis. The results of the OVA analyses are included in Table 1.

Table 1

Soil Sample OVA Analysis

Draper Corporation
Hornaday Road
Greensboro, North Carolina

Sample No.	Sample Depth (Ft.)	OVA Reading (ppm*)
RBS-1-13	13	7
RBS-2-13	13	22
RBS-3-13	13	ND**
RBS-4-13	13	1

* ppm = parts per million
** ND = No Detection

4.0 LABORATORY ANALYSIS

The soil samples were relinquished to a subcontract laboratory and analyzed for Total Petroleum Hydrocarbons (TPH) - EPA Method 3550 and for Oil and Grease - EPA Method 9071. The results of the analyses are summarized in Table 2. A copy of the laboratory results and the associated Chain of Custody are included in Appendix IV.

Table 2

Soil Sample Laboratory Analyses

Draper Corporation
Hornaday Road
Greensboro, North Carolina

Sample No.	Sample Depth (Ft.)	TPH* EPA Method 3550 (mg/kg)**	Oil & Grease EPA Method 9071 (mg/kg)
RBS-1-13	13	1151	1112
RBS-2-13	13	1056	1994
RBS-3-13	13	<10	110
RBS-4-13	13	100	132

* TPH - Total Petroleum Hydrocarbons
Laboratory Detection Limit = 10 mg/kg
** mg/kg = milligrams per kilogram = milligrams per Liter
(or ppm = parts per million)

5.0 CONCLUSIONS

The laboratory analyses indicate that petroleum hydrocarbons remain in place in the area where the UST was previously mounted. The concentrations indicated by the laboratory analyses are above the action levels currently established by the North Carolina Division of Environmental Management, and remedial action of some form is likely to be required.

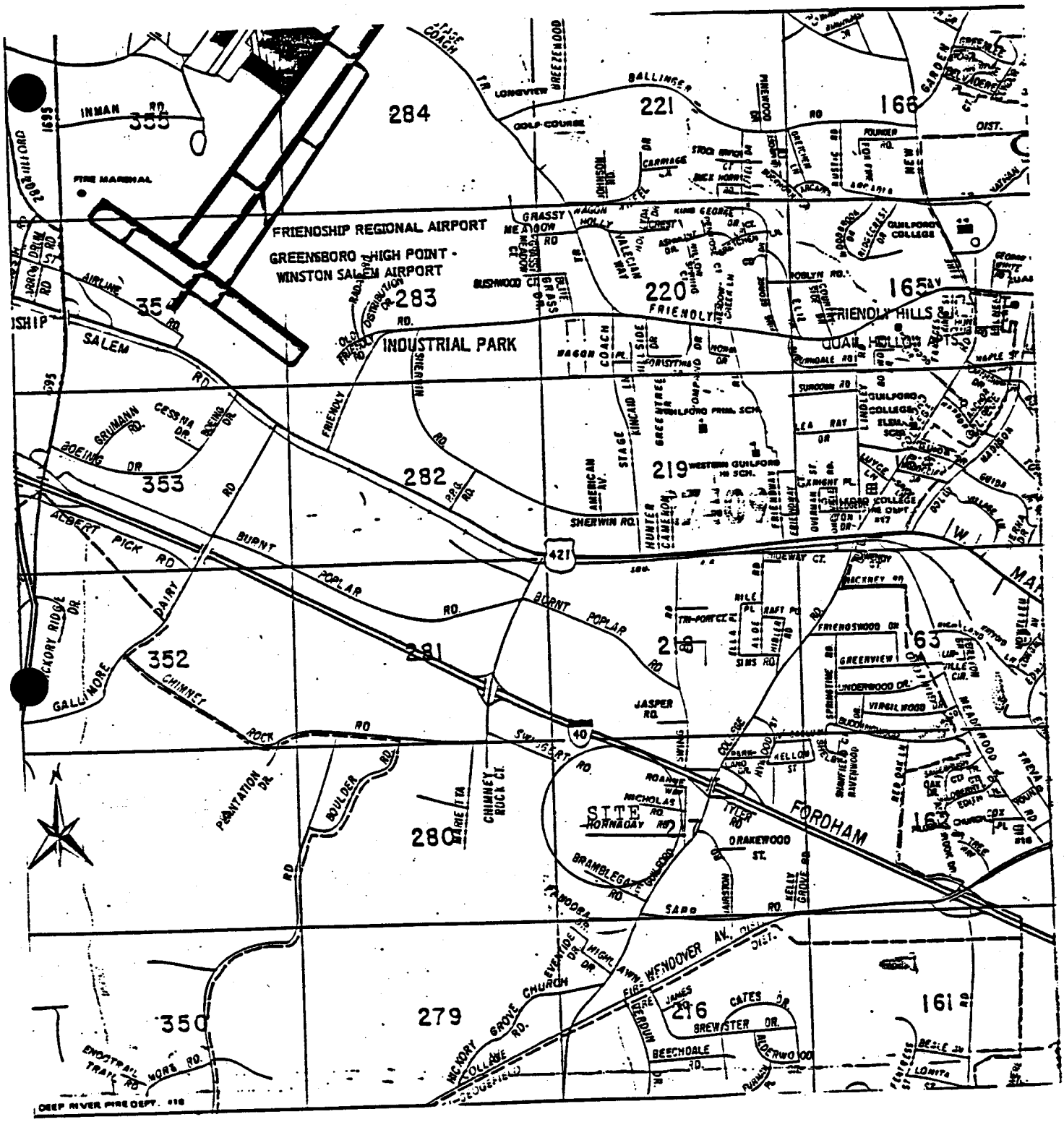


FIGURE 1 : LOCATION MAP

TRIAD ENVIRONMENTAL CONSULTANTS, INC. AND ASSOCIATES
3319 CLEMMONS ROAD
CLEMMONS, N.C. 27012
TELEPHONE & FAX
(919) 766-0810

DRAPER CORPORATION
GREENSBORO, NC

DATE:

DRAWN BY:

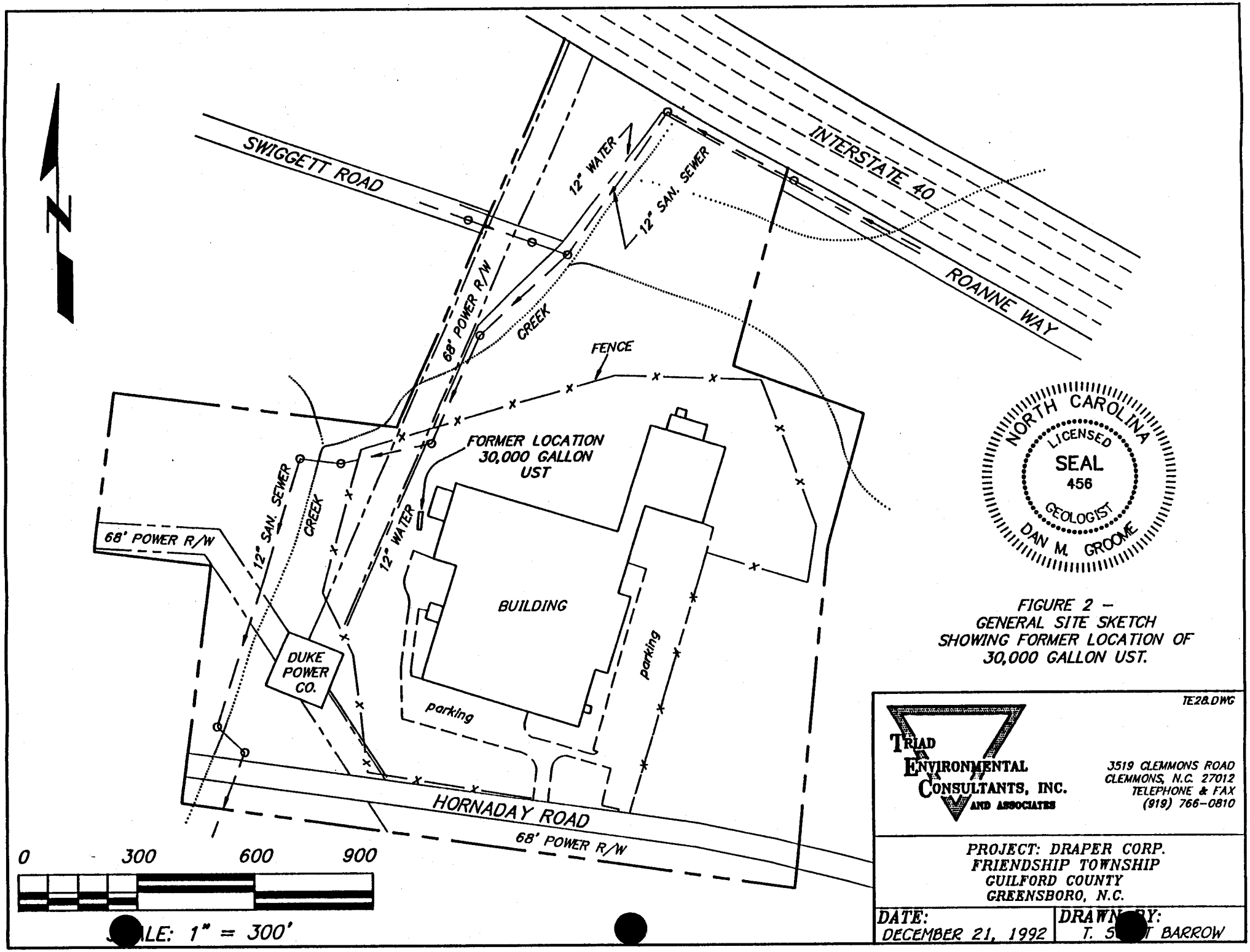


FIGURE 2 –
GENERAL SITE SKETCH
SHOWING FORMER LOCATION OF
30,000 GALLON UST.

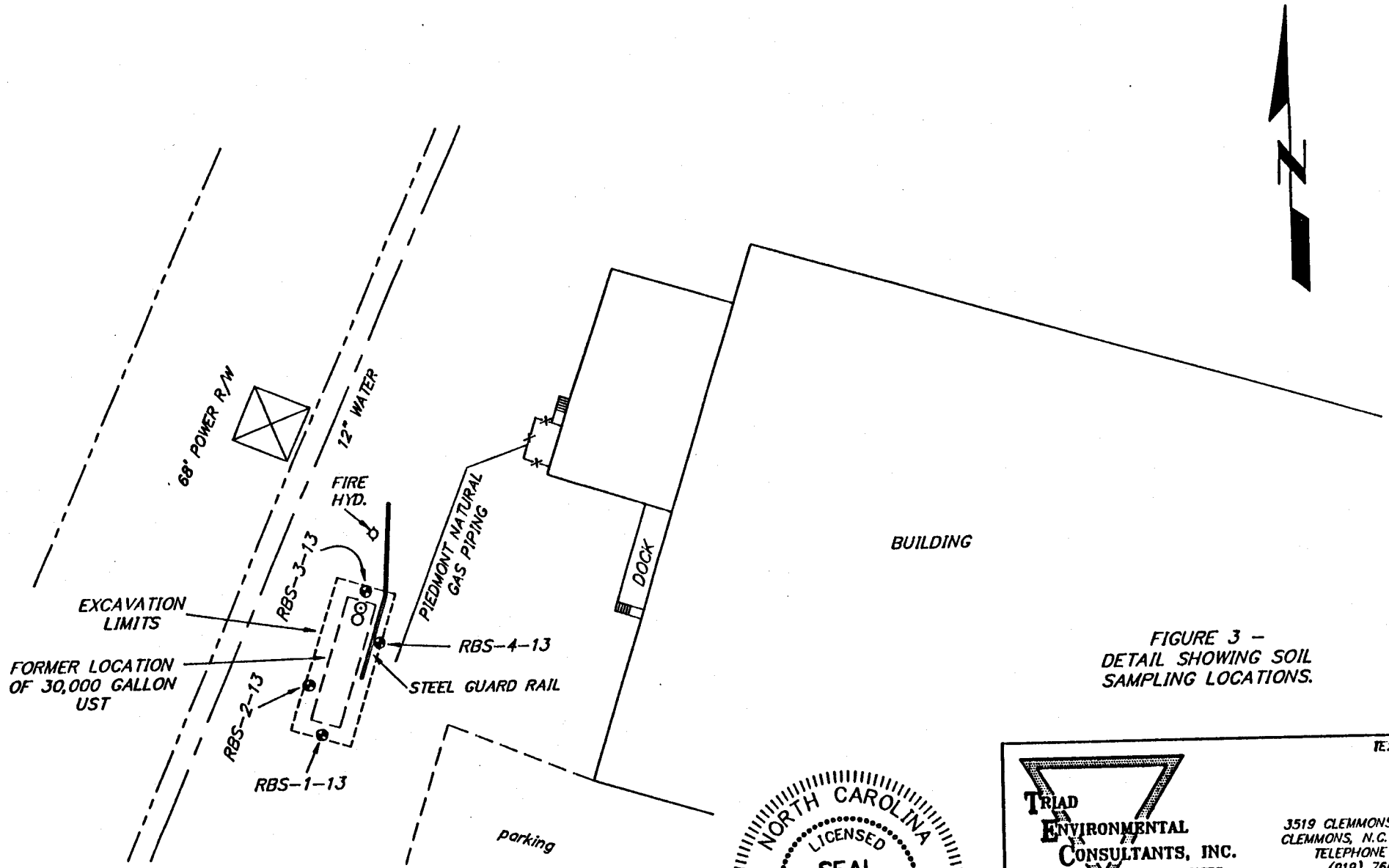


FIGURE 3 –
DETAIL SHOWING SOIL
SAMPLING LOCATIONS.

NORTH CAROLINA
LICENSED
SEAL
456
GEOLOGIST
DAN M. GROOME

TE28.DWG

TRIAD ENVIRONMENTAL CONSULTANTS, INC.
AND ASSOCIATES

3519 CLEMMONS ROAD
CLEMMONS, N.C. 27012
TELEPHONE & FAX
(919) 766-0810

PROJECT: DRAPER CORP.
FRIENDSHIP TOWNSHIP
GUILFORD COUNTY
GREENSBORO, N.C.

DATE:
DECEMBER 15, 1992

DRAWN BY:
T. SCOTT BARROW

Safeway Tank Disposal, Inc.

CERTIFICATE OF TANK DISPOSAL

Customer

Triad Environmental
3519 Clemmons Rd.
Clemmons, NC 27012

Date Dec 22, 1992

Transported by: Sanders Ent.

Tank Disposal Number	Size	Weight	Product	Residue Amount	Origin
6644	20,000	15,990#	Fuel Oil	175 gal.	Draper Corp. 5644 Horneday Rd. Greensboro, NC
6662	30,000	31,850#	#4 Fuel Oil	275 gal.	↓
			Total Residue	450 gal	

Tanks were disposed in accordance with API 1604, 1987 Removal and Disposal of Used Underground Petroleum Storage Tanks. Residue was disposed in accordance with U.S. EPA Regulations by licensed subcontractor. Lead free scrap steel was recycled by United Metal Recyclers on 12/21/92.

Brian A Young

SAFEWAY TANK DISPOSAL, INC.

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of

3. Generator's Name and Mailing Address
DRAPER CORP.
P.O BOX 19100
GREENSBORO N.C. 27419

TRIad ENVIRONMental
CLEMMONS N.C.

4. Generator's Phone ( )

5. Transporter 1 Company Name
LOV ENVIRONMENTAL SERV. INC.

6. US EPA ID Number
NCD981243942

Anthony MAYNARD

7. Transporter 2 Company Name
EASTERN PETROLEUM CORP.

8. US EPA ID Number
GAD984298182

9. Designated Facility Name and Site Address
SELLERS OIL CO.
INDUSTRIAL AIR PARK
BAINBRIDGE, GA.

10. US EPA ID Number
GAD033590514

A. Transporter's Phone

B. Transporter's Phone (912) 922-9965

C. Facility's Phone (912) 246-4341

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. #4 #5 & #6 FUEL	1	#4 Fuel	8400 gal	
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
RECEIVED IN 23,000 TANK CAR LOAD

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name | Signature | Month | Day | Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: ANTHONY MAYNARD | Signature: W. Anthony Maynard | Month: 12 | Day: 15 | Year: 92

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: LANE BRYANT | Signature: L Bryant | Month | Day | Year

19. Discrepancy Indication Space

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

Printed/Typed Name: JOHN STRICKLAND | Signature: John Strickland | Month | Day | Year

GENERATOR

TRANSPORTER

FACILITY

TRANSPORTER #2

TRIAD ENVIRONMENTAL CONSULTANTS, INC.

STANDARD DECONTAMINATION AND SAMPLE HANDLING PROCEDURES

EQUIPMENT DECONTAMINATION, SOIL SAMPLE COLLECTION AND FIELD EVALUATION PROCEDURES

Soil samples for this project were collected using hand augers equipped with stainless steel buckets. The hand augers were either advanced into the native soil at each sampling location or advanced into the center of a bucket collected by the trackhoe excavator. Each sampling location was chosen by a Triad Environmental Consultants, Inc. geologist. The hand augers (the auger bucket and a portion of the lower auger extension) were decontaminated prior to and between each use by the following procedure: A soap and water wash, a tap water rinse, a deionized water rinse, a methanol alcohol rinse and a final rinse with deionized water.

Triad Environmental Consultants personnel wore new, disposable latex gloves during each transfer of soil from the hand auger bucket to the sample containers. Upon collection, each sample was split into two (2) representative portions. One (1) split was tightly packed into a new, laboratory supplied, 120 milliliter glass jar and securely sealed with a Teflon lined cap, labeled and stored in a chilled cooler. The other portion of the sample was placed into a ziplock bag for later field OVA evaluation. This portion of the sample remained sealed in the ziplock bag for at least ten (10) minutes prior to evaluation.

SOIL SAMPLE HANDLING PROCEDURES

To preserve any volatile organic compounds that may be present in soil samples, the samples are handled in the following manner: Immediately after collection, a label is affixed to each sample container. The sample identification number is then noted on the label along with the sampler's name, the time and date of sample collection and type of analysis requested. The samples are then stored in a chilled cooler with frozen reusable ice packs or slush ice for transport to the subcontract laboratory. If transport to laboratory is not immediate, the samples are stored under refrigeration at Triad Environmental Consultants' offices until shipment to the subcontract laboratory can be arranged. The samples are shipped to the laboratory in a chilled cooler to preserve sample integrity. A Chain of Custody record is kept to document sample handling from time of collection until delivery to the laboratory.

Lab Report

PRISM LABORATORIES, INC.

Full Service Analytical & Environmental Solutions

December 29, 1992

RECEIVED 12/30/92

Triad Environmental
Attn: Steve Johnson
3519 Clemmons Road
Clemmons, NC 27012
Ref: Hornaday

Draper RBS-1-13, RBS-2-13, RBS-3-13, RBS-4-13, MW-2

Dear Mr. Johnson:

Below are results of analysis of 5 samples received for examination on December 21, 1992:

Customer Code: TRIAD Phone Number: (919)766-0810 (fax) 766-0810
LAB I.D. AA13812 Prism ID Number 1809A5 Prism Customer Number 6671
Collection Date: 12/18/92 Collection Time: 10:35
Submittal Date: 12/21/92 Submittal Time: 11:05
Customer Sample I.D#: RBS-1-13

TEST PARAMETER	UNITS	TEST RESULT	DETECTION LIMIT
PETROLEUM HYDROCARBONS, #9071	mg/kg	1112.	10.
PETROLEUM HYDROCARBONS, #3550	mg/kg	1151.	10.
EPA METHOD 3550, GC FID		done	

Comments:
Project Name: Hornaday

Customer Code: TRIAD Phone Number: (919)766-0810 (fax) 766-0810
LAB I.D. AA13813 Prism ID Number 1809A5 Prism Customer Number 6671
Collection Date: 12/18/92 Collection Time: 10:40
Submittal Date: 12/21/92 Submittal Time: 11:05
Customer Sample I.D#: RBS-2-13

TEST PARAMETER	UNITS	TEST RESULT	DETECTION LIMIT
PETROLEUM HYDROCARBONS, #9071	mg/kg	1994.	10.
PETROLEUM HYDROCARBONS, #3550	mg/kg	1056.	10.
EPA METHOD 3550, GC FID		done	

Comments:
Project Name: Hornaday

Lab Report

PRISM LABORATORIES, INC.

Full Service Analytical & Environmental Solutions

Triad Environmental
Page: 2
December 29, 1992

Customer Code: TRIAD Phone Number: (919)766-0810 (fax) 766-0810
LAB I.D. AA13814 Prism ID Number 1809A5 Prism Customer Number 6671
Collection Date: 12/18/92 Collection Time: 10:45
Submittal Date: 12/21/92 Submittal Time: 11:05
Customer Sample I.D#: RBS-3-13

TEST PARAMETER	UNITS	TEST RESULT	DETECTION LIMIT
PETROLEUM HYDROCARBONS, #9071	mg/kg	110.	10.
PETROLEUM HYDROCARBONS, #3550	mg/kg	< 10.	10.
EPA METHOD 3550, GC FID		done	

Comments:
Project Name: Hornaday

Customer Code: TRIAD Phone Number: (919)766-0810 (fax) 766-0810
LAB I.D. AA13815 Prism ID Number 1809A5 Prism Customer Number 6671
Collection Date: 12/18/92 Collection Time: 10:48
Submittal Date: 12/21/92 Submittal Time: 11:05
Customer Sample I.D#: RBS-4-13

TEST PARAMETER	UNITS	TEST RESULT	DETECTION LIMIT
PETROLEUM HYDROCARBONS, #9071	mg/kg	132.	10.
PETROLEUM HYDROCARBONS, #3550	mg/kg	100.	10.
EPA METHOD 3550, GC FID		done	

Comments:
Project Name: Hornaday

Customer Code: TRIAD Phone Number: (919)766-0810 (fax) 766-0810
LAB I.D. AA13816 Prism ID Number 1809A5 Prism Customer Number 6671
Collection Date: 12/18/92 Collection Time: 13:00
Submittal Date: 12/21/92 Submittal Time: 11:05
Customer Sample I.D#: MW-2

TEST PARAMETER	UNITS	TEST RESULT	DETECTION LIMIT
Multicomponent analysis: HALOGENATED VOLATILE ORGANICS			
VINYL CHLORIDE	ug/L	Not Det	50
TRICHLOROFLUORO-METHANE	ug/L	Not Det	5
1,1-DICHLOROETHENE	ug/L	Not Det	1

Lab Report

PRISM LABORATORIES, INC.

Full Service Analytical & Environmental Solutions

Triad Environmental
Page: 3
December 29, 1992

HALOGENATED VOLATILE ORGANICS (continued):

METHYLENE CHLORIDE	ug/L	5	5
TRANS-1,2-DICHLOROETHENE	ug/L	Not Det	1
1,1-DICHLOROETHANE	ug/L	Not Det	1
CHLOROFORM	ug/L	Not Det	1
1,1,1-TRICHLOROETHANE	ug/L	Not Det	1
CARBON TETRACHLORIDE	ug/L	Not Det	1
1,2-DICHLOROETHANE	ug/L	Not Det	1
TRICHLOROETHENE	ug/L	Not Det	1
1,2-DICHLOROPROPANE	ug/L	Not Det	1
BROMODICHLOROMETHANE	ug/L	Not Det	1
2-CHLOROETHYLVINYL ETHER	ug/L	Not Det	1
TRANS-1,3-DICHLOROPROPENE	ug/L	Not Det	1
CIS-1,3-DICHLOROPROPENE	ug/L	Not Det	1
1,1,2-TRICHLOROETHANE	ug/L	Not Det	1
TETRACHLOROETHENE	ug/L	49	1
DIBROMOCHLOROMETHANE	ug/L	Not Det	1
EDB	ug/L	Not Det	1
CHLOROBENZENE	ug/L	Not Det	1
BROMOFORM	ug/L	Not Det	1
1,1,2,2-TETRACHLOROETHANE	ug/L	Not Det	1
1,3-DICHLOROBENZENE	ug/L	Not Det	1
1,4-DICHLOROBENZENE	ug/L	Not Det	1
1,2-DICHLOROBENZENE	ug/L	Not Det	1
EPA METHOD 5030, GC FID		done	

Comments:
Project Name: Hornaday

Please advise should you have questions concerning these data.

Respectfully submitted,

Angela D. Overcash
Laboratory Manager

Main Office: 449 Springbrook Road P.O. Box 240543 Charlotte, NC 28224-0543 Phone: (704) 529-6364 Fax:(704) 525-0409
South Carolina Laboratory: 10471 Asheville Highway, P.O. Box 137, Inman, SC 29349 Phone: (803) 472-9046 Fax: (803) 472-5172
All Correspondences and Remittances to the Charlotte Office

TRIAD ENVIRONMENTAL CONSULTANTS, INC. AND ASSOCIATES
3519 Clemmons Road
Clemmons, NC 27012
Telephone & FAX
(919) 766-0810

Chain of Custody Record

PROJECT: Draper Corporation

SITE: Hornaday Road Greensboro, N.C.

COLLECTED BY (Signature): Don M. Groome

ANALYSES

FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME	NO. OF CONTAINERS	EPA 9071 Oil & Grease	TPH EPA 3550	EPA METHOD 601						REMARKS	SAM ID NO. (for lab use only)
RBS-1-13	Soil	12-18-92/1035	1	✓	✓								13812
RBS-2-13	Soil	12-18-92/1040	1	✓	✓								13813
RBS-3-13	Soil	12-18-92/1045	1	✓	✓								13814
RBS-4-13	Soil	12-18-92/1048	1	✓	✓								13815
MW-2	water	12-18-92/1300	2			✓							13816

REMARKS: RUSH Results

RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME
Kathleen J. Lee	12/18/92	1600 hrs	Kathleen J. Lee	12/21/92	0810 hrs	Jim Pellegrino Sr.	12/21/92	0910	Jim Pellegrino	12/21/92	1000 hrs

RELINQUISHED BY: Don M. Groome — DATE: 12-18-92 — TIME: 1600 hrs

LAB USE ONLY

RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP°C	SEAL #	CONDITION
Cindy A. Scott	12/21	10:00		Cindy Scott	12/21	10:00			Good

REMARKS:

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

FOR TANKS 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)

Draper Corporation
Owner Name (Corporation, Individual, Public Agency, or Other Entity)
Hornaday Road PO Box 18100
Street Address
Guilford
County
Greensboro NC 27419
City State Zip Code
919-852-4200
Area Code Telephone Number

II. Location of Tank(s)

Draper corporation
Facility Name or Company
Facility ID # (if available)
Hornaday Rd.
Street Address or State Road
Guilford Greensboro, NC 27419
County City Zip Code
919-852-4200
Area Code Telephone Number

III. Contact Person

Mr. Denny Walker — Name
Vice President, Administration — Job Title
919-852-4200 — Telephone No. (Area Code)

Closure Contractor (Name) Triad Environmental Cons (Address) 3519 Clemmons Rd Clemmons NC (Telephone No. (Area Code)) 919-766-0810

Lab (Name) Prism Laboratories (Address) PO Box 240543 Charlotte, NC 28224 (Telephone No. (Area Code)) 704-525-0409

IV. U.S.T. Information / V. Excavation Condition

Tank No.	Size in Gallons	Tank Dimensions	Last Contents	Water in Excavation Yes	Water in Excavation No	Free Product Yes	Free Product No	Notable Odor or Visible Soil Contamination Yes	Notable Odor or Visible Soil Contamination No
	30000	10.5x46.5'	#4 Fuel Oil		x		x	x	

VI. Additional Information Required

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.

- [x] Contact local fire marshall
- [x] Notify DEM Regional Office before abandonment.
- [x] Drain & flush piping into tank.
- [x] Remove all product and residuals from tank
- [x] Excavate down to tank.
- [x] Clean and inspect tank.
- [x] Remove drop tube, fill pipe, gauge pipe, vapor recovery tank connections, submersible pumps and other tank fixtures.
- [x] Cap or plug all lines except the vent and fill lines.
- [x] Purge tank of all product & flammable vapors.
- [ ] Cut one or more large holes in the tanks.
- [ ] Backfill the area.

Date Tank(s) Permanently closed: 12-16-92
Date of Change-in-Service: _____

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
- [x] Label tank
- [x] Dispose of tank in approved manner

Final tank destination: Safeway Tank Disposal Colfax, 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.

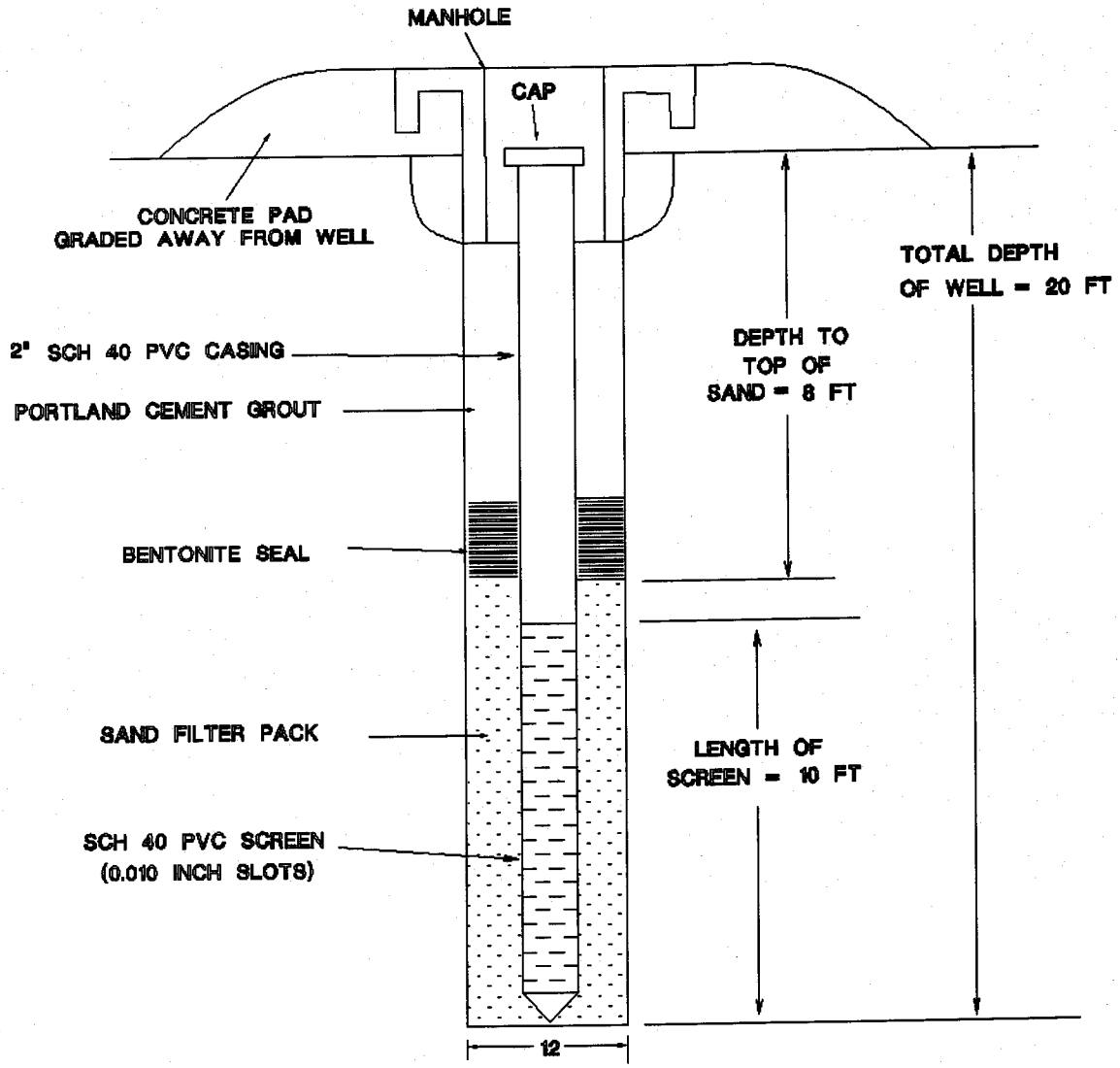
Print name and official title of owner or owner's authorized representative	Signature	Date Signed

JOB NAME DRAPER CORPORATION

WELL NUMBER MW-6

LOCATION GREENSBORO, NC

DATE OF INSTALLATION 1-7-93



TYPE II
MONITOR

TRIAD ENVIRONMENTAL CONSULTANTS, INC. AND ASSOCIATES

3516 CLEMMONS ROAD
CLEMMONS, NC 27012
TELEPHONE AND FAX
(919) 766-0810

MONITORING WELL
INSTALLATION RECORD

TRIAD ENVIRONMENTAL CONSULTANTS, INC.

STANDARD DECONTAMINATION AND SAMPLE HANDLING PROCEDURES

EQUIPMENT DECONTAMINATION, SOIL SAMPLE COLLECTION AND FIELD EVALUATION PROCEDURES

Soil samples for this project were collected using hand augers equipped with stainless steel buckets. The hand augers were advanced into the native soil at each sampling location. Each boring location was chosen by a Triad Environmental Consultants, Inc. geologist. The hand augers (the auger bucket and a portion of the lower auger extension) were decontaminated prior to and between each use by the following procedure: A soap and water wash, a tap water rinse, a methanol alcohol rinse and a final rinse with deionized water.

Triad Environmental Consultants personnel wore new, disposable latex gloves during each transfer of soil from the hand auger bucket to the sample containers. Upon collection, each sample was split into two (2) representative portions. One (1) split was tightly packed into a new, laboratory supplied, 120 milliliter glass jar and securely sealed with a Teflon lined cap, labeled and stored in a chilled cooler. The other portion of the sample was placed into a ziplock bag for later field OVA evaluation. This portion of the sample remained sealed in the ziplock bag for at least ten (10) minutes prior to OVA evaluation.

EQUIPMENT BLANK SAMPLE COLLECTION PROCEDURE

Equipment blank water samples were also collected during this project. Triad Environmental Consultants personnel wore new, disposable latex gloves during the entire water sample collection process. The procedure used to collect the samples were as follows: The hand augers were decontaminated as described above, then a new, laboratory supplied, 40 milliliter (ml) glass vial was filled from water trickled through the hand auger bucket. The vial was filled completely with water, allowing no headspace. The procedure was repeated until two (2) 40 ml vials were collected. The water samples were then labeled and stored in a chilled cooler (See Sample Handling Procedures).

SOIL AND WATER SAMPLE HANDLING PROCEDURES

To preserve any volatile organic compounds that may be present in soil and water samples, the samples are handled in the following manner: Immediately after collection, a label is affixed to each sample container. The sample identification number is then noted on the label along with the sampler's name, the time and date of sample collection and type of analysis requested. The samples are then stored in a chilled cooler with frozen reusable ice packs or slush ice for transport to the subcontract laboratory. If transport to laboratory is not immediate, the samples are stored under refrigeration at Triad Environmental Consultants' offices until shipment to the subcontract laboratory can be arranged. The samples are shipped to the laboratory in a chilled cooler to preserve sample integrity. A Chain of Custody record is kept to document sample handling from time of collection until delivery to the laboratory.

Lab Report

PRISM LABORATORIES, INC.

Full Service Analytical & Environmental Solutions

Triad Environmental
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EPA Method 624 (continued):

bromodichloromethane	ug/l	Not Det	5
dibromochloromethane	ug/l	Not Det	5
1,2-dichlorobenzene	ug/l	Not Det	5
tetrachloroethene	ug/l	Not Det	5
toluene	ug/l	Not Det	5
trichloroethene	ug/l	Not Det	5
vinyl chloride	ug/l	Not Det	10
1,4-dichlorobenzene	ug/l	Not Det	5
trichlorofluoromethane	ug/l	Not Det	5
cis-1,2-dichloroethene	ug/l	Not Det	5

Comments:
Project Name: Draper Corporation
Job Number: 019329

Customer Code: TRIAD Phone Number: (919)766-0810 (fax) 766-0810
LAB I.D. AA14253 Prism ID Number 1941A648 Prism Customer Number 6671
Collection Date: 01/29/93 Collection Time: 14:50
Submittal Date: 02/01/93 Submittal Time: 14:06
Customer Sample I.D#: MW-6

TEST PARAMETER	UNITS	TEST RESULT	DETECTION LIMIT
Fax results		done	
Multicomponent analysis: EPA Method 624			
benzene	ug/l	Not Det	5
carbon tetrachloride	ug/l	Not Det	5
chlorobenzene	ug/l	Not Det	5
1,2-dichloroethane	ug/l	Not Det	5
1,1,1-trichloroethane	ug/l	Not Det	5
1,1-dichloroethane	ug/l	Not Det	5
1,1,2-trichloroethane	ug/l	Not Det	5
1,1,2,2-tetrachloroethane	ug/l	Not Det	5
chloroethane	ug/l	Not Det	10
1,3-dichlorobenzene	ug/l	Not Det	5
2-chloroethylvinyl ether	ug/l	Not Det	10
chloroform	ug/l	Not Det	5
1,1-dichloroethene	ug/l	Not Det	5
trans-1,2-dichloroethene	ug/l	Not Det	5
1,2-dichloropropane	ug/l	Not Det	5
cis-1,3-dichloropropene	ug/l	Not Det	5
trans-1,3-dichloropropene	ug/l	Not Det	5
ethylbenzene	ug/l	Not Det	5
methylene chloride	ug/l	Not Det	5

Lab Report

PRISM LABORATORIES, INC.

Full Service Analytical & Environmental Solutions

Triad Environmental
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EPA Method 624 (continued):

chloromethane	ug/l	Not Det	10
bromomethane	ug/l	Not Det	10
bromoform	ug/l	Not Det	5
bromodichloromethane	ug/l	Not Det	5
dibromochloromethane	ug/l	Not Det	5
1,2-dichlorobenzene	ug/l	Not Det	5
tetrachloroethene	ug/l	Not Det	5
toluene	ug/l	Not Det	5
trichloroethene	ug/l	Not Det	5
vinyl chloride	ug/l	Not Det	10
1,4-dichlorobenzene	ug/l	Not Det	5
trichlorofluoromethane	ug/l	Not Det	5
cis-1,2-dichloroethene	ug/l	22	5

Multicomponent analysis: ACID EXTRACTABLES BY GCMS

4-NITROPHENOL	ug/l	Not Det	10
PENTACHLOROPHENOL	ug/l	Not Det	10
4,6-DINITRO-O-CRESOL	ug/l	Not Det	10
2,4-DINITROPHENOL	ug/l	Not Det	10
4-CHLORO-3-METHYPHENOL	ug/l	Not Det	10
2,4,6-TRICHLOROPHENOL	ug/l	Not Det	10
2,4-DICHLOROPHENOL	ug/l	Not Det	10
2,4-DIMETHYLPHENOL	ug/l	Not Det	10
PHENOL	ug/l	Not Det	10
2-NITROPHENOL	ug/l	Not Det	10
2-CHLOROPHENOL	ug/l	Not Det	10

Multicomponent analysis: BASE-NEUTRALS BY GCMS

N-NITROSODIMETHYLAMINE	ug/L	Not Det	10
BIS(2-CHLOROETHYL)ETHER	ug/L	Not Det	10
N-NITROSO-DI-N-PROPYLAMINE	ug/L	Not Det	10
NITROBENZENE	ug/L	Not Det	10
HEXACHLOROBUTADIENE	ug/L	Not Det	10
1,2,4-TRICHLOROBENZENE	ug/L	Not Det	10
ISOPHORONE	ug/L	Not Det	10
NAPHTHALENE	ug/L	Not Det	10
BIS(2-CHLOROETHOXY)METHANE	ug/L	Not Det	10
HEXACHLOROCYCLOPENTADIENE	ug/L	Not Det	10
2-CHLORONAPHTHALENE	ug/L	Not Det	10
ACENAPHTHYLENE	ug/L	Not Det	10
ACENAPHTHENE	ug/L	Not Det	10
DIMETHYL PHTHALATE	ug/L	Not Det	10
2,6-DINITROTOLUENE	ug/L	Not Det	10
FLUORENE	ug/L	Not Det	10
4-CHLOROPHENYL PHENYL ETHER	ug/L	Not Det	10
2,4-DINITROTOLUENE	ug/L	Not Det	10
DIETHYL PHTHALATE	ug/L	Not Det	10

Lab Report

PRISM LABORATORIES, INC.

Full Service Analytical & Environmental Solutions

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February 4, 1993

BASE-NEUTRALS BY GCMS (continued):

N-NITROSODIPHENYLAMINE	ug/L	Not Det	10
1,2-DIPHENYL HYDRAZINE	ug/L	Not Det	10
HEXACHLOROBENZENE	ug/L	Not Det	10
4-BROMOPHENYL PHENYL ETHER	ug/L	Not Det	10
PHENANTHRENE	ug/L	Not Det	10
ANTHRACENE	ug/L	Not Det	10
DI-N-BUTYL-PHTHALATE	ug/L	Not Det	10
FLUORANTHENE	ug/L	Not Det	10
PYRENE	ug/L	Not Det	10
BENZIDINE	ug/L	Not Det	10
BUTYL BENZYL PHTHALATE	ug/L	Not Det	10
BIS(2-ETHYLHEXYL) PHTHALATE	ug/L	Not Det	10
BENZO (a) ANTHRACENE	ug/L	Not Det	10
CHRYSENE	ug/L	Not Det	10
3,3'-DICHLOROBENZIDINE	ug/L	Not Det	10
DI-N-OCTAL PHTHALATE	ug/L	Not Det	10
BENZO (b) FLUORANTHENE	ug/L	Not Det	10
BENZO (k) FLUORANTHENE	ug/L	Not Det	10
BENZO (a) PYRENE	ug/L	Not Det	10
INDENO (1,2,3-cd) PYRENE	ug/L	Not Det	10
DIBENZ (a,h) ANTHRACENE	ug/L	Not Det	10
BENZO (g,h,i) PERYLENE	ug/L	Not Det	10
2-METHYLNAPHTHALENE	ug/L	Not Det	10
BIS(2-CHLOROISOPROPYL) ETHER	ug/L	Not Det	10
4-CHLOROPHENYL PHENYL ETHER	ug/L	Not Det	10
HEXACHLOROETHANE	ug/L	Not Det	10
EPA METHOD 8270, GCMS		done	

Comments:
Project Name: Draper Corporation
Job Number: 019329

Customer Code: TRIAD Phone Number: (919)766-0810 (fax) 766-0810
LAB I.D. AA14254 Prism ID Number 1941A648 Prism Customer Number 6671
Collection Date: 01/29/93 Collection Time: 15:50
Submittal Date: 02/01/93 Submittal Time: 14:06
Customer Sample I.D#: MW-8

TEST PARAMETER	UNITS	TEST RESULT	DETECTION LIMIT
Fax results		done	
Multicomponent analysis: EPA Method 624			
benzene	ug/l	Not Det	5
carbon tetrachloride	ug/l	Not Det	5

TRIAD ENVIRONMENTAL CONSULTANTS, INC. AND ASSOCIATES
3519 Clemmons Road
Clemmons, NC 27012
Telephone & FAX
(919) 766-0810

Chain of Custody Record

Page 1 of 1

PROJECT: Draper Corporation

SITE: Hornaday Rd. - Greensboro, NC.

COLLECTED BY (Signature): Dan M. Groome

JOB #: 019329

FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME	NO. OF CONTAINERS	EPA 624	EPA 625 A/B/N							REMARKS	SAM ID NO. (for lab use only)
MW-4	WATER	1-29-93/1230	3	✓									14252
MW-6	↓	1-29-93/1450	8	✓	✓								14253
MW-8	↓	1-29-93/1550	3	✓									14254
MW-9	↓	1-31-93/1330	3	✓									14255
MW-10	↓	1-31-93/1400	3	✓									14256
S-1		1-29-93/1240	3	✓									14257

REMARKS: RUSH ASAP Results

RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME
James Nelligan Jr.	2-1-93	9:55AM	James Nelligan Jr.	2-1-93	11:15	Deidy Scott	2/1/93	11:15A	Dan M. Groome	2-1-93	9:55AM

LAB USE ONLY

RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP°C	SEAL #	CONDITION

REMARKS:

Lab Report

PRISM LABORATORIES, INC.

Full Service Analytical & Environmental Solutions

January 18, 1993

RECEIVED 1/20/93

Triad Environmental
Attn: Steve Johnson
3519 Clemmons Road
Clemmons, NC 27012

Dear Mr. Johnson:

Below are results of analysis of 1 sample received for examination on January 8, 1993:

Customer Code: TRIAD Phone Number: (919)766-0810 (fax) 766-0810
LAB I.D. AA13996 Priam ID Number 1860A1 Priam Customer Number 6671
Collection Date: 01/08/93 Collection Time: 09:50
Submittal Date: 01/08/93 Submittal Time: 15:53
Customer Sample I.D#: MW-6

TEST PARAMETER	UNITS	TEST RESULT	DETECTION LIMIT
Multicomponent analysis: ACID EXTRACTABLES BY GCMS			
4-NITROPHENOL	ug/l	Not Det	5
PENTACHLOROPHENOL	ug/l	Not Det	5
4,6-DINITRO-O-CRESOL	ug/l	Not Det	5
2,4-DINITROPHENOL	ug/l	31	5
4-CHLORO-3-METHYPHENOL	ug/l	Not Det	5
2,4,6-TRICHLOROPHENOL	ug/l	Not Det	5
2,4-DICHLOROPHENOL	ug/l	Not Det	5
2,4-DIMETHYLPHENOL	ug/l	Not Det	5
PHENOL	ug/l	Not Det	5
2-NITROPHENOL	ug/l	Not Det	5
2-CHLOROPHENOL	ug/l	Not Det	5
Multicomponent analysis: BASE-NEUTRALS BY GCMS			
N-NITROSODIMETHYLAMINE	ug/L	Not Det	5
BIS(2-CHLOROETHYL)ETHER	ug/L	Not Det	5
N-NITROSO-DI-N-PROPYLAMINE	ug/L	Not Det	5
NITROBENZENE	ug/L	Not Det	5
HEXACHLOROBUTADIENE	ug/L	Not Det	5
1,2,4-TRICHLOROBENZENE	ug/L	Not Det	5
ISOPHORONE	ug/L	Not Det	5
NAPHTHALENE	ug/L	Not Det	5
BIS(2-CHLOROETHOXY)METHANE	ug/L	Not Det	5
HEXACHLOROCYCLOPENTADIENE	ug/L	Not Det	5
2-CHLORONAPHTHALENE	ug/L	Not Det	5

Lab Report

RISM
TORIES, INC.
Full Service Analytical & Environmental Solutions

Triad Environmental
Page: 2
January 18, 1993

BASE-NEUTRALS BY GCMS (continued):

ACENAPHTHYLENE	ug/L	Not Det	5
ACENAPHTHENE	ug/L	Not Det	5
DIMETHYL PHTHALATE	ug/L	Not Det	5
2,6-DINITROTOLUENE	ug/L	Not Det	5
FLUORENE	ug/L	Not Det	5
4-CHLOROPHENYL PHENYL ETHER	ug/L	Not Det	5
2,4-DINITROTOLUENE	ug/L	Not Det	5
DIETHYL PHTHALATE	ug/L	Not Det	5
N-NITROSODIPHENYLAMINE	ug/L	Not Det	5
1,2-DIPHENYL HYDRAZINE	ug/L	Not Det	5
HEXACHLOROBENZENE	ug/L	Not Det	5
4-BROMOPHENYL PHENYL ETHER	ug/L	Not Det	5
PHENANTHRENE	ug/L	Not Det	5
ANTHRACENE	ug/L	Not Det	5
DI-N-BUTYL-PHTHALATE	ug/L	Not Det	5
FLUORANTHENE	ug/L	Not Det	5
PYRENE	ug/L	Not Det	5
BENZIDINE	ug/L	Not Det	5
BUTYL BENZYL PHTHALATE	ug/L	Not Det	5
BIS(2-ETHYLHEXYL) PHTHALATE	ug/L	Not Det	5
BENZO (a) ANTHRACENE	ug/L	Not Det	5
CHRYSENE	ug/L	Not Det	5
3,3'-DICHLOROBENZIDINE	ug/L	Not Det	5
DI-N-OCTAL PHTHALATE	ug/L	Not Det	5
BENZO (b) FLUORANTHENE	ug/L	Not Det	5
BENZO (k) FLUORANTHENE	ug/L	Not Det	5
BENZO (a) PYRENE	ug/L	Not Det	5
INDENO (1,2,3-cd) PYRENE	ug/L	Not Det	5
DIBENZ (a,h) ANTHRACENE	ug/L	Not Det	5
BENZO (g,h,i) PERYLENE	ug/L	Not Det	5
2-METHYLNAPHTHALENE	ug/L	Not Det	5
BIS(2-CHLOROISOPROPYL) ETHER	ug/L	Not Det	5
4-CHLOROPHENYL PHENYL ETHER	ug/L	Not Det	5
HEXACHLOROETHANE	ug/L	Not Det	5
EPA METHOD 8270, GCMS		done	

Comments:
Project Name: Draper Corporation
MW-6

Lab Report

RISM
LABORATORIES, INC.
Full Service Analytical & Environmental Solutions

Please advise should you have questions concerning these data.

Respectfully submitted,

Angela D. Overcash
Laboratory Manager

Main Office: 449 Springbrook Road P.O. Box 240543 Charlotte, NC 28224-0543 Phone: (704) 529-6364 Fax:(704) 525-0409
South Carolina Laboratory: 10471 Asheville Highway, P.O. Box 137, Inman, SC 29349 Phone: (803) 472-9046 Fax: (803) 472-5172
All Correspondences and Remittances to the Charlotte Office

TRIAD ENVIRONMENTAL CONSULTANTS, INC. AND ASSOCIATES
3519 Clemmons Road
Clemmons, NC 27012
Telephone & FAX
(919) 766-0810

Chain of Custody Record

Page _____ of _____

PROJECT: Draper Corporation

SITE: Horneday Road Greensboro N.C.

COLLECTED BY (Signature): Don M. Groome

FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME	NO. OF CONTAINERS	ANALYSES: EPA 625 only BNA								REMARKS	SAM ID NO. (for lab use only)
MW-6	Water	1-8-93/0950	4	7									13996

REMARKS: Detection limit of 2.5 ppb if possible

RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME
[illegible]	1-8-93	1430	James Kellyn J.	1-8-93	3:45pm	Deidy Scott	1/8/93	3:45	Don M. Groome	1-8-93	1430

LAB USE ONLY

RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP°C	SEAL #	CONDITION

REMARKS: