

SEP 01 1993



205 Main Street  
Brattleboro, VT 05301

(802) 254-3677 (24 hrs.)  
(802) 254-7630 (FAX)

August 26, 1993

Matt Germon  
VT DEC SMS HMMD  
103 South Main St/West Bldg  
Waterbury, VT 05671-0404

RE: Summary Report of Soil Excavation and Groundwater Analyses at  
Race and Custom, Route 14, East Montpelier, VT

Dear Mr. Germon:

Please find enclosed the above referenced report.

Should you have any questions please call me at 254-3677.

Sincerely,  
TRI-S, Inc. Environmental Consulting

Bruce Tease, Ph.D.  
Senior Environmental Scientist

Enclosure

BET/dan

Branch Office:  
25 Pinney Street, Ellington, CT 06029 (203) 875-2110 (24 hrs.)  
Fax: (203) 875-8587 (24 hrs.)

\\287.02\germon.let

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**Summary Report of  
Soil Excavation and Groundwater Analyses**

*at*

Race & Custom  
Route 14  
East Montpelier, Vermont

*for*

First Vermont Bank  
Western Avenue  
West Brattleboro, Vermont 05301

*by*

TRI-S, Inc. Environmental Consulting  
205 Main Street  
Brattleboro, VT 05301

August 11, 1993

## EXECUTIVE SUMMARY

Additional soil excavation and groundwater sampling were performed at the former Race & Custom site in East Montpelier, Vermont as requested by the Vermont Department of Environmental Conservation (VT DEC). Approximately one cubic yard of contaminated soil was excavated in the vicinity of the sales and service building, where in May of 1993, Tetrachloroethene (PCE) was detected in the surface soils. Confirmatory sampling was performed following soil removal for laboratory analysis of Volatile Organic Compounds by GC/MS via EPA Method 8240. Also performed at the site as requested by the VT DEC was the sampling of monitoring well (RC-7) located near the storage building for the analysis of Volatile Organic Compounds by GC/MS via EPA Method 8240.

In addition to the above noted work, the three floor drains located in the sales and service building were plugged and permanently sealed with concrete. Approval to conduct the second quarterly sampling of monitoring wells RC-1, RC-2, and RC-3 was granted by Matt Germon of the VT DEC. These wells were sampled on July 16, 1993, and analyzed for Aromatic Volatile Organic Compounds by GC via EPA Method 8020.

Results indicated the presence of 530 ug/Kg of Tetrachloroethene (PCE) in the soil sample collected following soil excavation. The groundwater sample collected from RC-7 contained 5 ug/L of PCE. Groundwater samples collected from RC-1, RC-2, and RC-3 were absent of the compounds tested for at the detection limits employed.

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## I. Introduction

The subject property is located on Route 14 in East Montpelier, Vermont. Formerly known as Race & Custom, the site is currently known as Gilles Service and Sales, a snowmobile and boat service and sales facility. On June 9, 1993, the Sites Management Section (SMS) of the VT DEC requested that the responsible party, First Vermont Bank, have performed additional site work involving soil excavation and groundwater sampling and analysis. TRI-S, Inc. Environmental Consulting (TEC) was contracted by First Vermont Bank to perform this additional work.

Matt Germon of the SMS was on site during the above noted activities. Mr. Germon granted permission to perform the second of four scheduled quarterly sampling rounds of monitoring wells RC-1, RC-2, and RC-3. Also performed was the permanent closure of three floor drains located in the service and sales building.

## II. Work Activities

### A. Soil Excavation

On July 16, 1993, approximately one (1) cubic yard of what appeared to be contaminated soil was excavated in an area downgradient of the sales and service building. This area was previously identified as containing 3.1 mg/Kg of Tetrachloroethene in a TEC letter of findings dated June 1, 1993. Used oil filters and anti-freeze containers were found in this area of the site.

The area of contamination was approximately 5 square feet in size and heavily vegetated. Surface soils consisted of a rich organic A horizon, the surface of which was darkly stained with what appeared to be petroleum related compounds. Beneath the A horizon to a depth of approximately 2 feet, was a layer of coarse grained sand and gravel exhibiting a noticeable odor. Head space screening of this material revealed the presence of low levels (8.0 ppm) of Volatile Organic Compounds (VOC) using a Thermo Environmental Instruments Inc. Organic Vapor Meter Model 580B calibrated to Isobutylene. The majority of contamination appeared to be limited to this layer of the excavation pit. Beneath this layer was approximately 2 feet of tightly packed fine to medium grained sand and silt. Gray clay was encountered approximately 5 feet below grade as determined using a hand auger. Head space screening of soil samples collected from the pit at the limit of excavation revealed the presence of 0.2 ppm to 2.0 ppm of VOC. Head space screening of soil collected slightly above the clay layer using the hand auger revealed the presence of 1.3 ppm of VOC. No groundwater was encountered during the soil excavation.

Based on the confining nature of the soils present at the base of the excavation pit, the very low levels of head space VOCs detected, and what appeared to be the majority of contamination located above the sand and silt layer, no further soil excavation was performed. Matt Germon of the SMS concurred that additional excavation was not necessary at that time. A composite soil sample was prepared by collecting soil from the four corners and the center of the excavation pit following soil excavation. This composite sample was analyzed for Volatile Organic Compounds by GC/MS via EPA Method 8240. The excavated soil was containerized in one (1) Tri-Pack which was wrapped in plastic sheeting and stored in the vicinity of the excavation pit on a wooden pallet. This Tri-Pack together with the soil previously containerized in the Tri-Pack located near the storage building is planned to be disposed of upon approval at the Northland facility in Providence, Rhode Island.

#### B. Floor Drain Closure

The three drains located in the service and sales building were plugged and permanently sealed with concrete on July 16, 1993. A fourth drain was observed in the restroom in this building. Since this drain was apparently used to discharge water from a shower located in this restroom, the drain was not closed.

#### C. Monitoring Well Sampling and Analysis

Monitoring well RC-7, which is located near the storage structure, was sampled for Volatile Organic Compounds by GC/MS via EPA Method 8240 to determine if the groundwater in this area of the site has been adversely affected by stained soils located adjacent to the storage structure (as requested by the VT DEC). Approximately 4/5 of a cubic yard was removed from this area of the site on May 4, 1993. Excavation was limited due to the presence of the site structure and its foundation. The well was bailed to dryness and a sample was collected following groundwater infiltration. No odors were detected via olfactory senses.

#### D. Quarterly Sampling of Groundwater Monitoring Wells

Pursuant to the SMS's request for quarterly sampling of wells RC-1, RC-2, and RC-3, the second round of sampling was performed on July 16, 1993. While not due until August of 1993, permission to perform this sampling was granted by Matt Germon of the SMS. All wells were bailed to dryness prior to sampling. No odors were detected via olfactory senses. Depth to groundwater was not gauged via a groundwater interface probe but was estimated to be approximately 8-9 feet below ground surface.



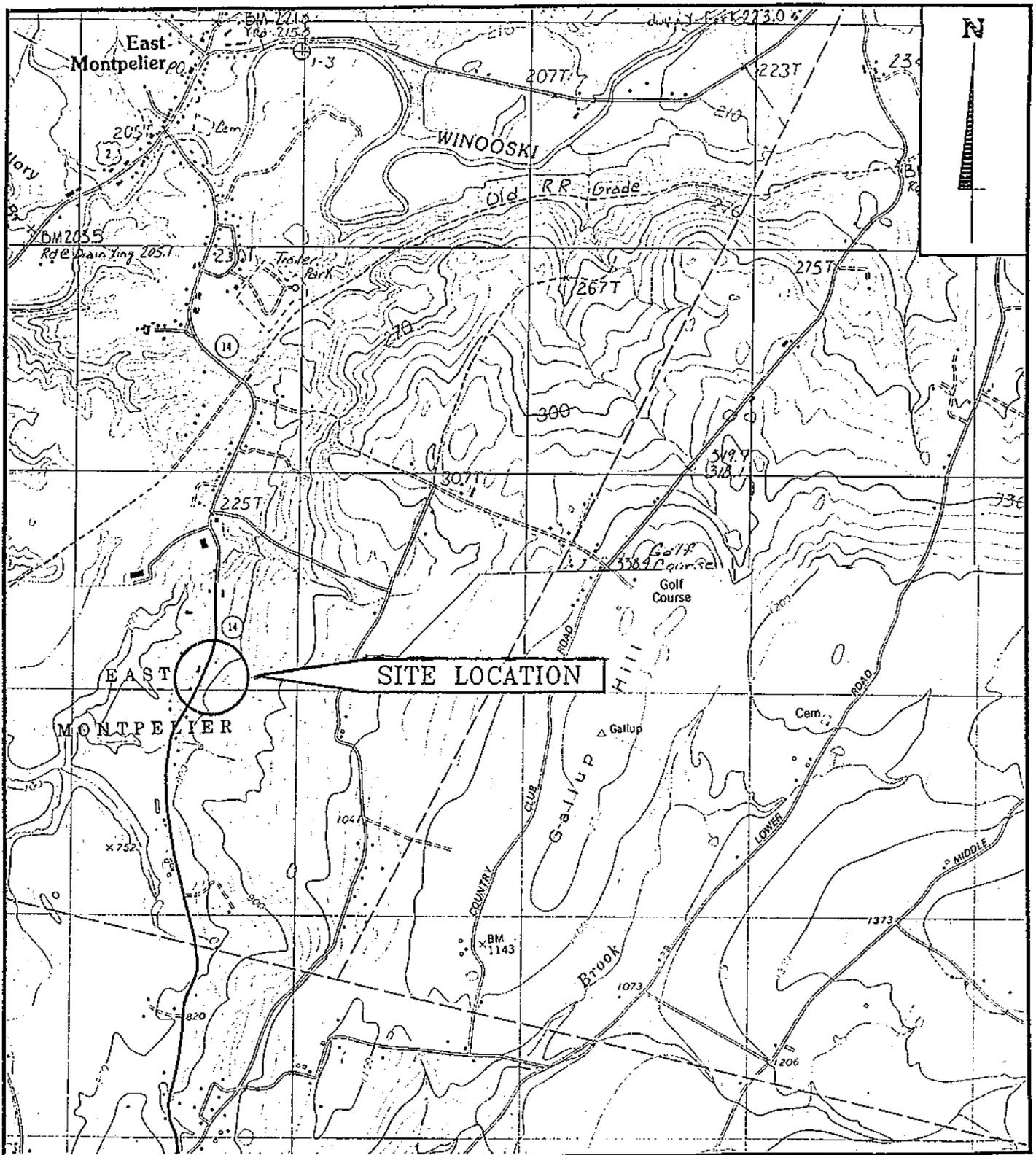
Soils containerized on site are planned to be disposed of at the Northland facility located in Providence, Rhode Island.

**V. Recommendations**

TEC recommends that the RC-7 monitoring well be sampled and tested for Volatile Organic Compounds by GC/MS via EPA Method 8240 during the October 1993 quarterly sampling round. The results from this testing shall be used to assess the need for additional remediative measures in this area of the site.

**Appendix A**

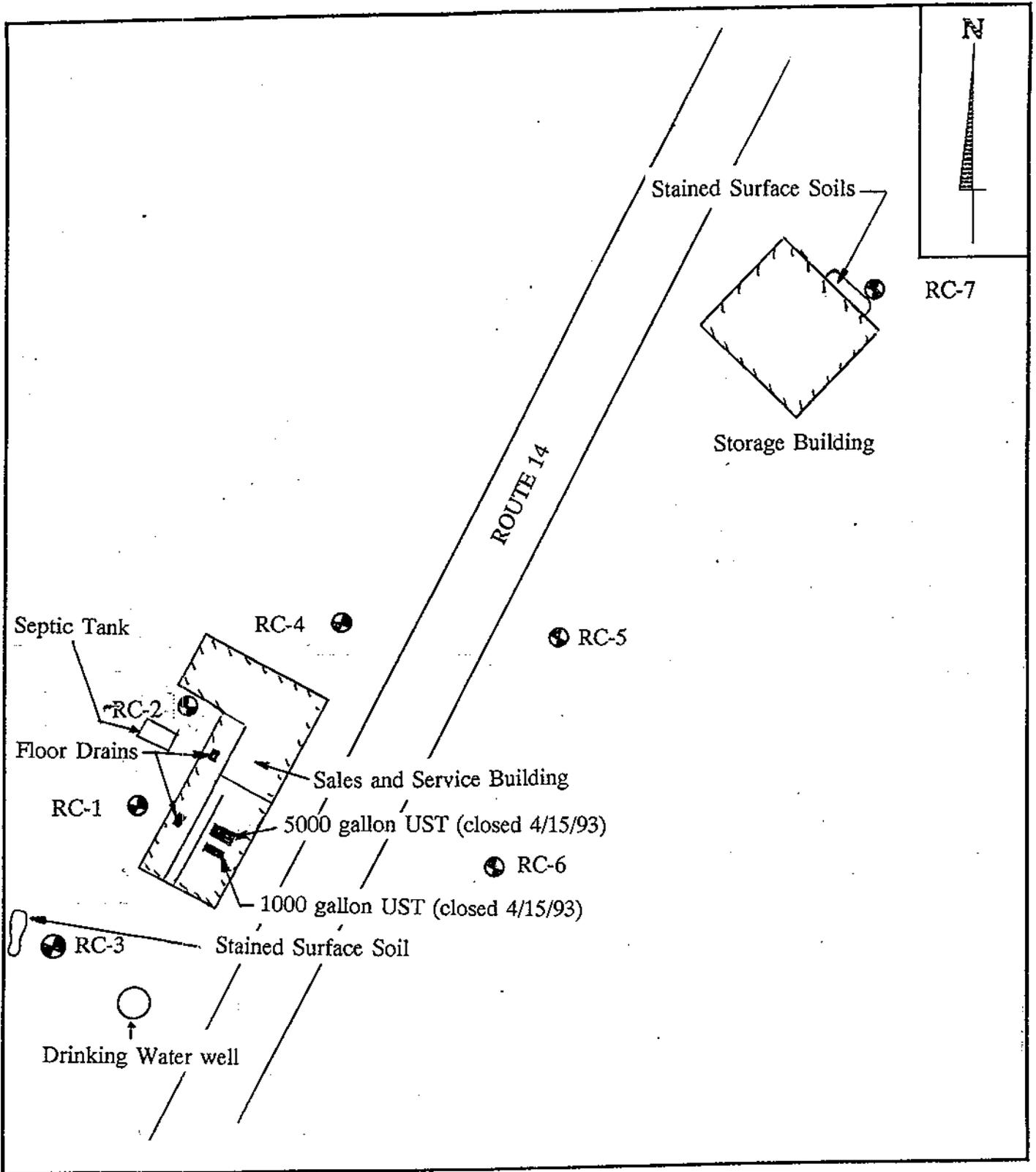
**Site Locus**



<p>Site Locus</p>	<p>Race &amp; Custom Route 14 East Montpelier, VT</p>	<p>Barre East, VT Quadrangle 1:24,000</p>
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**Appendix B**

**Site Sketch**



Site Sketch	Race & Custom Route 14 East Montpelier, VT	Not to Scale
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**Appendix C**  
**Laboratory Analysis Reports**



RECEIVED AUG 02 1993  
 ANALYTICAL DATA  
 SUMMARY

Report Date: 07/29/93  
 Account: TRI-S Environmental Consulting  
 Address: P.O. Box 1760  
 Brattleboro, VT 05302  
 802-254-3677

Project Manager:  
 Project Name: Race & Custom (287.02) (7-19-93)  
 Project No.: 287.02

Sample Information:

Laboratory ID	Client ID	Laboratory ID	Client ID
32003865-001	S-1-71693-287	32003865-005	RC-1-71693-287
32003865-002	QC-Report	32003865-006	RC-2-71693-287
32003865-003	RC-7-71693-287	32003865-007	RC-3-71693-287
32003865-004	W-2-71693-287	32003865-008	OC-Report

Reviewed by

*Stephen DiMattei (Dr)*  
 Stephen DiMattei  
 Quality Assurance Officer

Lab Certifications

EPA ID: No. MA059  
 Massachusetts: No. 313  
 Maine: Reciprocity  
 New York: ELAP No. 11116

Connecticut: No. PH 0515  
 Florida: QA Plan No. 900437G  
 New Hampshire: No. 24190-A,B  
 Rhode Island: Reciprocity



Matrix Analytical, Inc.  
106 South Street  
Hopkinton, MA 01748  
1 800 3-MATRIX

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FINAL REPORT

Client Information

Account: TRI-S Environmental Consulting  
Address: P.O. Box 1760  
Brattleboro, VT 05302

Project Name: Race & Custom (287.02)(7-19-93)  
Project Number: 287.02  
Project Manager:  
Sampler Name: TRI-S Environmental Consulting

Sample Information

Lab ID: 32003865-001  
Client ID: S-1-71693-287  
Matrix: Soil

Date Sampled: / / :  
Date Received: 07/19/93 : 0  
Date Reported: 07/29/93

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
<b>VOLATILE ORGANICS</b>						
Acetone	ND	ug/kg	100	8240	bs	07/26/93
Benzene	ND	ug/kg	1	8240	bs	07/26/93
Bromodichloromethane	ND	ug/kg	5	8240	bs	07/26/93
Bromoform	ND	ug/kg	5	8240	bs	07/26/93
Bromomethane	ND	ug/kg	5	8240	bs	07/26/93
Carbon Tetrachloride	ND	ug/kg	5	8240	bs	07/26/93
Chlorobenzene	ND	ug/kg	5	8240	bs	07/26/93
Chloroethane	ND	ug/kg	5	8240	bs	07/26/93
Chloroform	ND	ug/kg	5	8240	bs	07/26/93
Chloromethane	ND	ug/kg	5	8240	bs	07/26/93
Dibromochloromethane	ND	ug/kg	5	8240	bs	07/26/93
1,2-Dichlorobenzene	ND	ug/kg	5	8240	bs	07/26/93
1,3-Dichlorobenzene	ND	ug/kg	5	8240	bs	07/26/93
1,4-Dichlorobenzene	ND	ug/kg	5	8240	bs	07/26/93
1,1-Dichloroethane	ND	ug/kg	5	8240	bs	07/26/93
1,2-Dichloroethane	ND	ug/kg	5	8240	bs	07/26/93
1,1-Dichloroethene	ND	ug/kg	5	8240	bs	07/26/93
cis-1,2-Dichloroethene	ND	ug/kg	5	8240	bs	07/26/93
trans-1,2-Dichloroethene	ND	ug/kg	5	8240	bs	07/26/93
1,2-Dichloropropane	ND	ug/kg	5	8240	bs	07/26/93
cis-1,3-Dichloropropene	ND	ug/kg	5	8240	bs	07/26/93
trans-1,3-Dichloropropene	ND	ug/kg	5	8240	bs	07/26/93
Ethylbenzene	ND	ug/kg	5	8240	bs	07/26/93
Methylene Chloride	ND	ug/kg	5	8240	bs	07/26/93
Methyl Ethyl Ketone	ND	ug/kg	100	8240	bs	07/26/93



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**F I N A L R E P O R T**

**Client Information**

Account: TRI-S Environmental Consulting  
 Address: P.O. Box 1760  
 Brattleboro, VT 05302

Project Name: Race & Custom (287.02)(7-19-93)  
 Project Number: 287.02  
 Project Manager:  
 Sampler Name: TRI-S Environmental Consulting

**Sample Information**

Lab ID: 32003865-001  
 Client ID: S-1-71693-287  
 Matrix: Soil

Date Sampled: / / :  
 Date Received: 07/19/93 : 0  
 Date Reported: 07/29/93

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
<b><u>VOLATILE ORGANICS</u></b>						
MIBK	ND	ug/kg	50	8240	bs	07/26/93
MTBE	ND	ug/kg	5	8240	bs	07/26/93
1,1,2,2-Tetrachloroethane	ND	ug/kg	5	8240	bs	07/26/93
Tetrachloroethene	530	ug/kg	5	8240	bs	07/26/93
Toluene	ND	ug/kg	5	8240	bs	07/26/93
1,1,1-Trichloroethane	ND	ug/kg	5	8240	bs	07/26/93
1,1,2-Trichloroethane	ND	ug/kg	5	8240	bs	07/26/93
Trichloroethene	ND	ug/kg	5	8240	bs	07/26/93
Trichlorofluoromethane	ND	ug/kg	5	8240	bs	07/26/93
Vinyl Chloride	ND	ug/kg	5	8240	bs	07/26/93
Xylene	ND	ug/kg	5	8240	bs	07/26/93
<b><u>Surrogate Studies - Volatiles</u></b>						
Bromofluorobenzene	81	Percent			bs	07/26/93
1,2-Dichloroethane-D	119	Percent			bs	07/26/93
Toluene-D	108	Percent			bs	07/26/93



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FINAL REPORT

Client Information

Account: TRI-S Environmental Consulting  
Address: P.O. Box 1760  
Brattleboro, VT 05302

Project Name: Race & Custom (287.02)(7-19-93)  
Project Number: 287.02  
Project Manager:  
Sampler Name:

Sample Information

Lab ID: 32003865-002  
Client ID: QC-Report  
Matrix: Soil

Date Sampled: / / :  
Date Received: 07/19/93 : 0  
Date Reported: 07/29/93

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
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METHOD BLANK - VOLATILES

Method Blank	ND	ug/l		8240		
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MATRIX SPIKE STUDIES - VOLATILES

Benzene	72	Percent				
Chlorobenzene	80	Percent				
1,1-Dichloroethene	74	Percent				
Toluene	72	Percent				
Trichloroethene	74	Percent		8240		

METHOD SUMMARIES

Volatile organic analysis is performed using H/P 5995 or 5970 GC/MS, Tekmar purge and trap, and ALS autosampler. Chromatography incorporates packed and megabore columns. Data reduction is performed on RTE 1000 and ChemStation systems. Tuning is based on BFB standards. Procedural guidelines follow EPA 624 or SW846 for all analyses. Aromatic volatiles listed in VOA 8020 are analyzed using GC/MS systems.

METHOD REFERENCES

1. Test Methods For Evaluating Solid Waste: Physical Chemical Methods. EPA SW 846. November 1986.
2. Methods For Chemical Analysis of Water and Wastes. EPA 600/4-79-200. Revised March 1983.
3. Standard Methods For Examination of Water and Wastewater. APHA-AWWA-WACF., 16th Edition. 1985.



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Address: P.O. Box 1760  
Brattleboro, VT 05302

Project Name: Race & Custom (287.02)(7-19-93)  
Project Number: 287.02  
Project Manager:  
Sampler Name: TRI-S Environmental Consulting

**Sample Information**

Lab ID: 32003865-003  
Client ID: RC-7-71693-287  
Matrix: Water

Date Sampled: / / :  
Date Received: 07/19/93 : 0  
Date Reported: 07/29/93

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
<b><u>VOLATILE ORGANICS</u></b>						
Acetone	ND	ug/l	100	8240	kl	07/28/93
Benzene	ND	ug/l	1	8240	kl	07/28/93
Bromodichloromethane	ND	ug/l	5	8240	kl	07/28/93
Bromoform	ND	ug/l	5	8240	kl	07/28/93
Bromomethane	ND	ug/l	5	8240	kl	07/28/93
Carbon Tetrachloride	ND	ug/l	5	8240	kl	07/28/93
Chlorobenzene	ND	ug/l	5	8240	kl	07/28/93
Chloroethane	ND	ug/l	5	8240	kl	07/28/93
Chloroform	ND	ug/l	5	8240	kl	07/28/93
Chloromethane	ND	ug/l	5	8240	kl	07/28/93
Dibromochloromethane	ND	ug/l	5	8240	kl	07/28/93
1,2-Dichlorobenzene	ND	ug/l	5	8240	kl	07/28/93
1,3-Dichlorobenzene	ND	ug/l	5	8240	kl	07/28/93
1,4-Dichlorobenzene	ND	ug/l	5	8240	kl	07/28/93
1,1-Dichloroethane	ND	ug/l	5	8240	kl	07/28/93
1,2-Dichloroethane	ND	ug/l	5	8240	kl	07/28/93
1,1-Dichloroethene	ND	ug/l	5	8240	kl	07/28/93
cis-1,2-Dichloroethene	ND	ug/l	5	8240	kl	07/28/93
trans-1,2-Dichloroethene	ND	ug/l	5	8240	kl	07/28/93
1,2-Dichloropropane	ND	ug/l	5	8240	kl	07/28/93
cis-1,3-Dichloropropene	ND	ug/l	5	8240	kl	07/28/93
trans-1,3-Dichloropropene	ND	ug/l	5	8240	kl	07/28/93
Ethylbenzene	ND	ug/l	5	8240	kl	07/28/93
Methylene Chloride	ND	ug/l	5	8240	kl	07/28/93
Methyl Ethyl Ketone	ND	ug/l	100	8240	kl	07/28/93



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Client Information

Account: TRI-S Environmental Consulting  
Address: P.O. Box 1760  
Brattleboro, VT 05302

Project Name: Race & Custom (287.02)(7-19-93)  
Project Number: 287.02  
Project Manager:  
Sampler Name: TRI-S Environmental Consulting

Sample Information

Lab ID: 32003865-003  
Client ID: RC-7-71693-287  
Matrix: Water

Date Sampled: / / :  
Date Received: 07/19/93 : 0  
Date Reported: 07/29/93

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
<b><u>VOLATILE ORGANICS</u></b>						
MIBK	ND	ug/l	50	8240	kl	07/28/93
MTBE	ND	ug/l	5	8240	kl	07/28/93
1,1,2,2-Tetrachloroethane	ND	ug/l	5	8240	kl	07/28/93
Tetrachloroethene	5	ug/l	5	8240	kl	07/28/93
Toluene	ND	ug/l	5	8240	kl	07/28/93
1,1,1-Trichloroethane	ND	ug/l	5	8240	kl	07/28/93
1,1,2-Trichloroethane	ND	ug/l	5	8240	kl	07/28/93
Trichloroethene	ND	ug/l	5	8240	kl	07/28/93
Trichlorofluoromethane	ND	ug/l	5	8240	kl	07/28/93
Vinyl Chloride	ND	ug/l	5	8240	kl	07/28/93
Xylene	ND	ug/l	5	8240	kl	07/28/93
<b><u>Surrogate Studies - Volatiles</u></b>						
Bromofluorobenzene	94	Percent			kl	07/28/93
1,2-Dichloroethane-D	109	Percent			kl	07/28/93
Toluene-D	102	Percent			kl	07/28/93



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**Client Information**

Account:	TRI-S Environmental Consulting	Project Name:	Race & Custom (287.02)(7-19-93)
Address:	P.O. Box 1760	Project Number:	287.02
	Brattleboro, VT 05302	Project Manager:	
		Sampler Name:	TRI-S Environmental Consulting

**Sample Information**

Lab ID:	32003865-004	Date Sampled:	/ / :
Client ID:	W-2-71693-287	Date Received:	07/19/93 : 0
Matrix:	Water	Date Reported:	07/29/93

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
<b><u>VOLATILE ORGANICS</u></b>						
Acetone	ND	ug/l	100	8240	ck	07/27/93
Benzene	ND	ug/l	1	8240	ck	07/27/93
Bromodichloromethane	ND	ug/l	5	8240	ck	07/27/93
Bromoform	ND	ug/l	5	8240	ck	07/27/93
Bromomethane	ND	ug/l	5	8240	ck	07/27/93
Carbon Tetrachloride	ND	ug/l	5	8240	ck	07/27/93
Chlorobenzene	ND	ug/l	5	8240	ck	07/27/93
Chloroethane	ND	ug/l	5	8240	ck	07/27/93
Chloroform	ND	ug/l	5	8240	ck	07/27/93
Chloromethane	ND	ug/l	5	8240	ck	07/27/93
Dibromochloromethane	ND	ug/l	5	8240	ck	07/27/93
1,2-Dichlorobenzene	ND	ug/l	5	8240	ck	07/27/93
1,3-Dichlorobenzene	ND	ug/l	5	8240	ck	07/27/93
1,4-Dichlorobenzene	ND	ug/l	5	8240	ck	07/27/93
1,1-Dichloroethane	ND	ug/l	5	8240	ck	07/27/93
1,2-Dichloroethane	ND	ug/l	5	8240	ck	07/27/93
1,1-Dichloroethene	ND	ug/l	5	8240	ck	07/27/93
cis-1,2-Dichloroethene	ND	ug/l	5	8240	ck	07/27/93
trans-1,2-Dichloroethene	ND	ug/l	5	8240	ck	07/27/93
1,2-Dichloropropane	ND	ug/l	5	8240	ck	07/27/93
cis-1,3-Dichloropropene	ND	ug/l	5	8240	ck	07/27/93
trans-1,3-Dichloropropene	ND	ug/l	5	8240	ck	07/27/93
Ethylbenzene	ND	ug/l	5	8240	ck	07/27/93
Methylene Chloride	ND	ug/l	5	8240	ck	07/27/93
Methyl Ethyl Ketone	ND	ug/l	100	8240	ck	07/27/93



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 Hopkinton, MA 01748  
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**Client Information**

Account: TRI-S Environmental Consulting  
 Address: P.O. Box 1760  
 Brattleboro, VT 05302

Project Name: Race & Custom (287.02)(7-19-93)  
 Project Number: 287.02  
 Project Manager:  
 Sampler Name: TRI-S Environmental Consulting

**Sample Information**

Lab ID: 32003865-004  
 Client ID: W-2-71693-287  
 Matrix: Water

Date Sampled: / / :  
 Date Received: 07/19/93 : 0  
 Date Reported: 07/29/93

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
<b><u>VOLATILE ORGANICS</u></b>						
MIBK	ND	ug/l	50	8240	ck	07/27/93
MTBE	ND	ug/l	5	8240	ck	07/27/93
1,1,2,2-Tetrachloroethane	ND	ug/l	5	8240	ck	07/27/93
Tetrachloroethene	ND	ug/l	5	8240	ck	07/27/93
Toluene	ND	ug/l	5	8240	ck	07/27/93
1,1,1-Trichloroethane	ND	ug/l	5	8240	ck	07/27/93
1,1,2-Trichloroethane	ND	ug/l	5	8240	ck	07/27/93
Trichloroethene	ND	ug/l	5	8240	ck	07/27/93
Trichlorofluoromethane	ND	ug/l	5	8240	ck	07/27/93
Vinyl Chloride	ND	ug/l	5	8240	ck	07/27/93
Xylene	ND	ug/l	5	8240	ck	07/27/93
<b><u>Surrogate Studies - Volatiles</u></b>						
Bromofluorobenzene	79	Percent			ck	07/27/93
1,2-Dichloroethane-D	90	Percent			ck	07/27/93
Toluene-D	92	Percent			ck	07/27/93



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Client Information

Account: TRI-S Environmental Consulting  
 Address: P.O. Box 1760  
 Brattleboro, VT 05302

Project Name: Race & Custom (287.02)(7-19-93)  
 Project Number: 287.02  
 Project Manager:  
 Sampler Name: TRI-S Environmental Consulting

Sample Information

Lab ID: 32003865-005  
 Client ID: RC-1-71693-287  
 Matrix: Water

Date Sampled: / / :  
 Date Received: 07/19/93 : 0  
 Date Reported: 07/29/93

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
<b>VOLATILE ORGANICS</b>						
Benzene	ND	ug/l	1	8020	kp	07/27/93
Chlorobenzene	ND	ug/l	1	8020	kp	07/27/93
1,2-Dichlorobenzene	ND	ug/l	1	8020	kp	07/27/93
1,3-Dichlorobenzene	ND	ug/l	1	8020	kp	07/27/93
1,4-Dichlorobenzene	ND	ug/l	1	8020	kp	07/27/93
Ethylbenzene	ND	ug/l	1	8020	kp	07/27/93
MTBE	ND	ug/l	5	8020	kp	07/27/93
Toluene	ND	ug/l	1	8020	kp	07/27/93
Xylene	ND	ug/l	1	8020	kp	07/27/93
<b>Surrogate Studies - Volatiles</b>						
Bromofluorobenzene (602/8020)	92	Percent			kp	07/27/93



Matrix Analytical, Inc.  
 106 South Street  
 Hopkinton, MA 01748  
 1 800 3-MATRIX

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**F I N A L R E P O R T**

**Client Information**

Account: TRI-S Environmental Consulting  
 Address: P.O. Box 1760  
 Brattleboro, VT 05302

Project Name: Race & Custom (287.02)(7-19-93)  
 Project Number: 287.02  
 Project Manager:  
 Sampler Name: TRI-S Environmental Consulting

**Sample Information**

Lab ID: 32003865-006  
 Client ID: RC-2-71693-287  
 Matrix: Water

Date Sampled: / / :  
 Date Received: 07/19/93 : 0  
 Date Reported: 07/29/93

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
<b><u>VOLATILE ORGANICS</u></b>						
Benzene	ND	ug/l	1	8020	kp	07/27/93
Chlorobenzene	ND	ug/l	1	8020	kp	07/27/93
1,2-Dichlorobenzene	ND	ug/l	1	8020	kp	07/27/93
1,3-Dichlorobenzene	ND	ug/l	1	8020	kp	07/27/93
1,4-Dichlorobenzene	ND	ug/l	1	8020	kp	07/27/93
Ethylbenzene	ND	ug/l	1	8020	kp	07/27/93
MTBE	ND	ug/l	5	8020	kp	07/27/93
Toluene	ND	ug/l	1	8020	kp	07/27/93
Xylene	ND	ug/l	1	8020	kp	07/27/93
<b><u>Surrogate Studies - Volatiles</u></b>						
Bromofluorobenzene (602/8020)	83	Percent			kp	07/27/93



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 FINAL REPORT

**Client Information**

Account: TRI-S Environmental Consulting  
 Address: P.O. Box 1760  
 Brattleboro, VT 05302

Project Name: Race & Custom (287.02)(7-19-93)  
 Project Number: 287.02  
 Project Manager:  
 Sampler Name: TRI-S Environmental Consulting

**Sample Information**

Lab ID: 32003865-007  
 Client ID: RC-3-71693-287  
 Matrix: Water

Date Sampled: / / :  
 Date Received: 07/19/93 : 0  
 Date Reported: 07/29/93

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
<b><u>VOLATILE ORGANICS</u></b>						
Benzene	ND	ug/l	1	8020	kp	07/27/93
Chlorobenzene	ND	ug/l	1	8020	kp	07/27/93
1,2-Dichlorobenzene	ND	ug/l	1	8020	kp	07/27/93
1,3-Dichlorobenzene	ND	ug/l	1	8020	kp	07/27/93
1,4-Dichlorobenzene	ND	ug/l	1	8020	kp	07/27/93
Ethylbenzene	ND	ug/l	1	8020	kp	07/27/93
MTBE	ND	ug/l	5	8020	kp	07/27/93
Toluene	ND	ug/l	1	8020	kp	07/27/93
Xylene	ND	ug/l	1	8020	kp	07/27/93
<b><u>Surrogate Studies - Volatiles</u></b>						
Bromofluorobenzene (602/8020)	90	Percent			kp	07/27/93



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 106 South Street  
 Hopkinton, MA 01748  
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**F I N A L   R E P O R T**

**Client Information**

Account: TRI-S Environmental Consulting  
 Address: P.O. Box 1760  
 Brattleboro, VT 05302

Project Name: Race & Custom (287.02)(7-19-93)  
 Project Number: 287.02  
 Project Manager:  
 Sampler Name:

**Sample Information**

Lab ID: 32003865-008  
 Client ID: QC-Report  
 Matrix: Water

Date Sampled: / / :  
 Date Received: 07/19/93 : 0  
 Date Reported: 07/29/93

Analytical Parameter	Result	Unit	Detection Limit	Method No.	Analyst	Date Analyzed
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**METHOD BLANK - VOLATILES**

Method Blank	ND	ug/l		8020/602		
Method Blank	ND	ug/l		8240		

**METHOD SUMMARIES**

Volatile organic analysis is performed using H/P 5995 or 5970 GC/MS, Tekmar purge and trap, and ALS autosampler. Chromatography incorporates packed and megabore columns. Data reduction is performed on RTE 1000 and ChemStation systems. Tuning is based on BFB standards. Procedural guidelines follow EPA 624 or SW846 for all analyses. Aromatic volatiles listed in VOA 8020 are analyzed using GC/MS systems.

**METHOD REFERENCES**

1. Test Methods For Evaluating Solid Waste: Physical Chemical Methods. EPA SW 846. November 1986.
2. Methods For Chemical Analysis of Water and Wastes. EPA 600/4-79-200. Revised March 1983.
3. Standard Methods For Examination of Water and Wastewater. APHA-AWWA-WACF., 16th Edition. 1985.

# CHAIN-OF-CUSTODY RECORD

CLIENT: <b>TRI-S, INC</b>				ANALYSES REQUESTED										TOTALS						
ADDRESS: <b>PO BOX 1760</b>				<div style="position: absolute; top: 0; left: 0; transform: rotate(-90deg); font-size: small;">                 VOC 0728 240 VOC-200 0208-200             </div>																
CLIENT CONTACT/PHONE:																				
PROJECT NAME: <b>Race &amp; Custom</b> NO.: <b>287.02</b>																				
LAB CONTACT: <b>BRAD</b> EXT. NO.:				COMMENTS																
LAB ID (LAB USE ONLY)	SAMPLE ID / CLIENT DESCRIPTION	TYPE*	COLLECTION DATE / TIME	IMPORTANT - INDICATE THE NUMBER OF BOTTLES PER SAMPLE IN THE SPACES BELOW																
	<b>S-1-71693-287</b>	<b>S</b>		1																1
	<b>RC-7-71693-287</b>	<b>GW</b>		1	2															2
	<b>W-2-71693-287</b>	<b>W</b>		1																1
	<b>RC-1-71693-287</b>	<b>GW</b>								2										2
	<b>RC-2-71693-287</b>	<b>GW</b>								2										2
	<b>RC-3-71693-287</b>	<b>GW</b>								2										2
TOTALS:				4	6															10
*TYPE: W = water; GW = groundwater; DW = drinking water; SW = surface water; S = soil; SED = sediment; SL = sludge; DS = drum sample; O = oil; WI = wipe; X = other (please describe)				SPECIAL PRICE QUOTE FOR THIS PROJECT? NO YES NUMBER:				SPECIAL INSTRUCTIONS / NOTES:												

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<p><b>MATRIX ANALYTICAL USE ONLY:</b></p> <p>Samples: 1) were shipped / hand-delivered / ambient / chilled                  2) were received preserved / unpreserved                  3) were received intact / broken / leaking                  4) were received within / past holding times                  5) agreed with COC form / discrepancies were present                  6) were sealed / not sealed with COC tape; tape was broken / intact                  7) were in cooler sealed / not sealed with COC tape; tape was broken / intact</p> <p>NOTES:</p>	<p>RELINQUISHED BY</p> <p style="font-size: large; text-align: center;"><i>BET</i></p> <p>SAMPLER'S INITIALS</p> <p style="font-size: large; text-align: center;"><b>BET</b></p>	<p>RECEIVED BY</p> <p style="font-size: large; text-align: center;"><i>Max Wary</i></p>	<p>DATE</p> <p style="font-size: large; text-align: center;">7/19</p>	<p>TIME</p> <p style="font-size: large; text-align: center;">12:50</p>		<p>COMMENTS</p> <p style="font-size: large; text-align: center;">32003865-301</p>
		<p>MATRIX ANALYTICAL, INC.</p> <p>108 South Street</p> <p>Hopkinton, MA 01748</p> <p>1 (800) 3-MATRIX</p>				

**Appendix D**

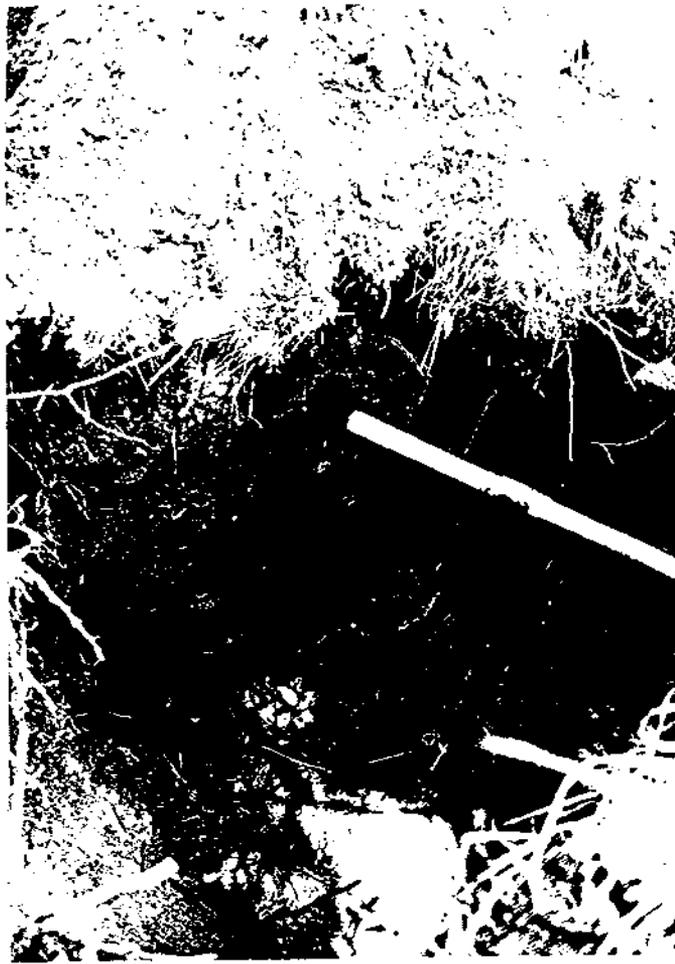
**Photographs**



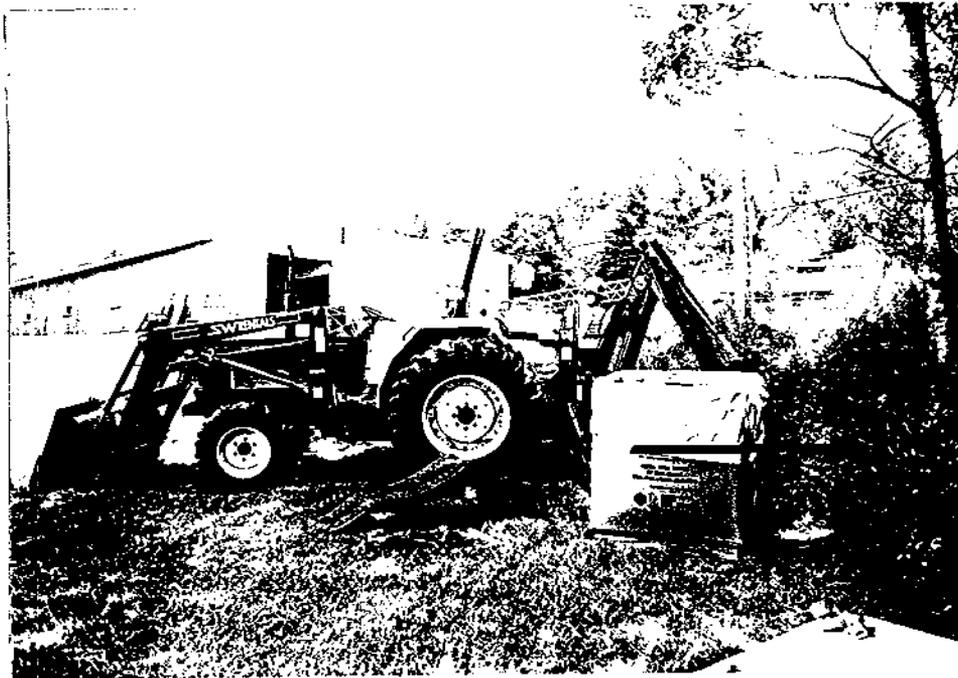
1. Area of stained surface soils and debris.



2. Soil pit.



**3. Limit of excavation and soil profile.**



**4. View of the excavation area with sales and service facility in the background.**



**5. A view of the excavation area following backfill with clean fill and wrapping of TRI-PACK.**