

February 8, 1999

Mr. Michael Zamiarski Region 8 New York State Department of Environmental Conservation 6274 East Avon-Lima Rd. Avon, NY 14414-9519

RE: UST CLOSURE REPORT TENNECO PACKAGING, MACEDON, NY

Dear Mr. Zamiarski:

Enclosed you will find a Site Assessment and Closure of Two Chemical Bulk Storage Tanks, Final Report for two 4,000 gallon storage tanks (CBS No. 8-000025) located at Tenneco Packaging's Macedon, NY facility. These tanks were permanently closed during the week of November 16, 1998, following procedures outlined in Tammy Anderson's letter dated November 9, 1998 (copy attached).

If you have any questions regarding the Final Report, or would like to visit Tenneco's Macedon facility, please contact me at 716-393-3267.

Sincerely,

Richard J. St. James Environmental Engineer

cc:

T. Anderson (IT Corp.)

R. D'Ottavio (w/o attach.)

G. Hill (Mobil Chemical Co.)

W. Hyatt (w/o attach.)

D. Porterfield (Dames & Moore)

R. Reott (Jenner & Block)

LaWinterberger (NYSDEC, Albany)

B. Wolfe (w/o attach.)



140 Allen's Creek Road—Suite 150 Rochester, New York 14618-3307 716-271-6430 Fax. 716-271-0251

November 27150

Mike Zamiarski Region 8 NYSDEC 6274 East Avon-Lima Road, Avon, NY 14414-9519

Dear Mr. Zamiarski:

Canandaigua Environmenta

On behalf of Tenneco Packaging, I am writing to notify you of Tenneco's intention to permanently close two 4,000 gallon storage tanks located at Tenneco's 200 Main Street, Macedon, NY facility. Tank No. 1 with CBS No. 8-000025 contained a hazardous substance that was originally specified as toluene mixture (CAS# 00108-88-3). Tank 2 with CBS No. 8-000025 contained a hazardous substance that was originally specified as ethylbenzene mixture (CAS# 100-41-4). There have been no known releases from either tank based upon historical and operational information. Both tanks were cleaned in September, 1991 and have been empty since that time.

Tenreco has hired Marcor Remediation, Inc. of Rochester to physically close the tanks, and IT Corporation to provide oversight, and to prepare a closure report for submittal to the NYSDEC.

Due to the proximity of buildings/structures to the tank pit, Marcor intends to close the tanks in place and fill them with inert flowable fill. Marcor will enter and visually inspect the tanks for cleanliness and structural integrity prior to filling.

Closure sampling will be performed consistent with guidelines set forth in Site Assessments at Bulk Storage Facilities, SPOTS 14, August 1994. A closure report will also be provided in accordance with this guidance.

Site work for the closure is scheduled to begin November 16, 1998. It is expected that Marcor will be onsite for several days. A GeoProbe 5400 rig is scheduled to be onsite, Tuesday, November, 17 to be used for sampling activities. If you would like to visit the site, please join us.

If you have any questions, concerns, or would like to arrange a time to visit the site, please call me at either (716) 271-6430 X211, or (716) 924-1644.

Janus I. Andusen

Tammy S. Anderson
Project Manager

Re St. James Tennero Prekaning

SITE ASSESSMENT AND CLOSURE OF TWO CHEMICAL BULK STORAGE TANKS CBS Registration NO. 8-000025

FINAL REPORT

TENNECO PACKAGING MACEDON FACILITY

Prepared for:

Tenneco Packaging Company 200 Main street Macedon, NY

January 1999



SITE ASSESSMENT AND CLOSURE OF TWO CHEMICAL BULK STORAGE TANKS CBS Registration NO. 8-000025

FINAL REPORT

TENNECO PACKAGING MACEDON FACILITY

Prepared for:

Tenneco Packaging Company 200 Main street Macedon, NY

TABLE OF CONTENTS

1.0	Conclusions and Recommendations	Page 1	
2.0	Tank System Design	2	
3.0	Site History	2	
4.0	Field Observations and Tank Closure	3	
5.0	Sampling and Analysis	5	
Table 1 Results of Analysis and Comparison of Values to TAGM 4046			

LIST OF APPENDICES

Appendix A--NYSDEC Chemical Bulk Storage Program Facility Information Report

Appendix B--Solvent Tank Drawings and Detail Specifications

Appendix C—Schematic of Historical Hazardous Substance Releases Near UST Closure and Sample Locations

Appendix D-Laboratory Results of Sample Analysis and Boring Logs

Appendix E-Photographs and Photo Log

1.0 Conclusions and Recommendations

Tenneco Packaging is located in Macedon, NY in a formerly unified facility owned by Mobil Chemical which now includes separately owned manufacturing facilities for Tenneco, Mobil's Commercial Films Division and Huntsman Design Products. Tenneco purchased Mobil Chemical's Plastics Division in November 1995. Tenneco manufacturers flexible packaging products including various types of polyethylene bags.

The total facility is approximately 23.6 acres in area with Tenneco plant buildings occupying approximately 92,000 square feet. The total facility is bounded by Route 31 to the south, route 350 to the west, Quaker road and a truck trailer parking area to the east, and the New York State Barge Canal and a Pennsylvania Central Railroad spur to the north. The chemical bulk storage tanks which are the subject of this report are located in the area north of Building 10.

Underground storage tanks previously used to store toluene and ethylbenzene solvent and registered in CBS database as No. 8-000025 have been permanently closed. Attached as Appendix A is a NYSDEC Chemical Bulk Storage Program Facility Information Report that reflects the closed status of both tanks.

There have been no known releases from either tank. The tanks were entered and inspected on November 17, 1998, and found to be in very good condition with no indication of either tank being compromised. The tanks were both closed in place due to their close proximity to other structures.

Contaminants were detected in subsurface samples obtained near the closed tanks via GeoProbe_®. However, neither ethylbenzene or toluene were detected in the samples analyzed. It is believed that the contaminants detected were present due to historic releases unrelated to the two solvent tanks being closed. These historic releases included a 5,000 gallon lacolene release, diesel fuel and gasoline releases, and a 500 gallon fuel oil spill. The site history and relevant releases are

described in more detail in Section 3.0. Mobil Chemical Company's remediation of soil and groundwater related to these releases included excavation of contaminated soil and a multi-phase extraction system. Mobil Chemical Company and Tenneco Packaging are currently undergoing discussions regarding the status of the site with Lynne Winterberger, NYSDEC, 50 Wolf Road, Albany.

It is recommended that no further action be taken regarding the closed tanks. With respect to the contaminants observed during the site assessment, it is recommended that these findings be addressed as part of the ongoing discussions between NYSDEC, Mobil Chemical Company, and Tenneco Packaging.

2.0 Tank System Design

In May 1987, two 4,000 gallon underground storage tanks (USTs) were installed at the facility now owned by Tenneco Packaging in Macedon, New York. Both tanks were manufactured by Buffalo Tank Corporation, model P340 DW 360. The double walled underground tank design included protective coating, cathodic protection system, testing station, UL approved electrical isolation of all openings, lifting lugs, integral piping containment chamber, and labeling as specified in contract drawings provided in Appendix B. Detailed specifications of the tank excavation and spill containment pad are also included in the Appendix B drawings. The only significant difference between the plan drawings and the actual tank installation was that only two tanks were installed instead of the three shown on the drawing.

3.0 Site History

The two USTs were installed in 1987 by Mobil Chemical Company. Tank 1 contained a hazardous substance that was originally specified as toluene mixture (CAS #00108-88-3). Tank 2 contained a hazardous substance that was originally specified as ethylbenzene mixture (CAS #100-41-4). There have been no known releases from either tank based upon historical and operational information. Both tanks were completely emptied and cleaned in 1991, and have been empty and out of service since that time.

The USTs were installed in 1987 to replace five co-solvent and one methyl alcohol USTs previously located in the same location. Approximately 266 tons of contaminated soil was excavated and removed as part of the removal of the previous USTs in 1987. Also, included in this removal were ten drums of "purple dirt." In the process of the soil removal, an old dry well was reportedly discovered filled with old rags and cans/lids believed to be from the time the property was owned by G.L.F. (now Agway).

In addition, there have been three significant spill events at the facility. Each of these spills occurred in close proximity to the area where the two USTs were recently closed and the site assessment was performed in December 1998. The three release events include:

- Releases during the 1970's due to leaking aboveground diesel fuel and underground gasoline tanks from the area northeast of Building 11;
- 5,000-gallon lacolene spill in 1982 in the area north of Building 10; and
- 500-gallon release of fuel oil from an aboveground storage tank in 1980's from the area just south of Building 12.

The schematic provided in Appendix C depicts the approximate location of these releases with respect to the recently closed tanks. Documentation for past excavation activities at the site indicated that soil excavation limits were generally based on visual observations rather than confirmatory sampling. Therefore, there is potential for residual contamination to be present from the historical releases in these areas.

4.0 Field Observations and Tank Closure

Tank closure activities were performed by Marcor Remediation, Inc, during the period of November 16-20, 1998. These activities included the dismantling and removal of all aboveground piping and vents, visual inspection of the tanks interior, and filling the tanks with flowable fill topped with concrete. Closure sampling was also performed via truck-mounted GeoProbe_® 5400 direct-push sampling system. Marcor's on-site crew included Jay Bradshaw

and Dave Engart who performed the GeoProbe_® work. Pete Spagnola, Supervisor, Willie Howell and Roger Joseph performed the tank cleaning and filling tasks. Tammy Anderson of IT Corporation was also present during the closure activities to provide oversight on behalf of Tenneco and to document closure activities.

When opened, Tank 2 appeared very clean and dry. No odors were detected. When Tank 1 was opened it was observed that the tank contained several inches of water. There was also a slight sheen on the water surface. See photographs 17 and 18. The water was pumped out and drummed. The volume of water removed was less than 150 gallons. The three drums were stored in the facility's hazardous waste storage area while awaiting disposal. It is believed that the water in Tank 1 came from precipitation that entered the tank through the vapor vent. Neither the Oxygen/LEL nor OVA meters displayed significant readings to indicate the presence of volatile organic compounds.

When piping associated with Tank 1 was dismantled a small quantity (less than a liter) of liquid containing some solvent (based upon odor) emptied back into the tank. The liquid was cleaned up with absorbent pads that were drummed for off-site disposal. The confined space of the tank continued to be monitored. After the liquid was cleaned up, both the meters indicated conditions were safe for entry into the tank.

Both tanks were entered by Pete Spagnola. The inside of both tanks was in very good condition. No indications of significant corrosion or other damage were observed. See photographs 5-15. Once all piping was removed the tanks and entry vault area were filled with flowable fill (photos 19 and 20). Concrete was used to top off the flowable fill. Photographs 21 and 22 depict the finished work.

5.0 Sampling and Analysis

Samples of soil and groundwater were obtained from two locations using the GeoProbe_® 5400 direct-push sampling system. Samples sent for laboratory analysis were subject to the following analytical methods: VOC by Method 8260 (water), SVOC by Method 8270 (soils), and TPH (water). It was impossible to obtain a third sample near the tank area due to confining physical structures that obstructed most of the area of concern. The two sample locations were identified on the schematic included in Appendix C. Boring logs and analytical results are provided in Appendix D. Samples were taken at two foot intervals in each boring. The sampling intervals and corresponding descriptions are included in the boring logs in Appendix D. Each core was screened in the field and the sample collected for laboratory analysis was from the layer with the highest field measurements. In both cases, this was at a depth of 10-12 feet. The depth to groundwater at GP1 was 11.5 feet. The depth to groundwater at GP2 was 6.5 feet.

The following Table 1 summarizes the results of laboratory analysis and compares these values to guidance cleanup levels in NYSDEC TAGM 4046.

As summarized in Table 1, contaminants were detected at locations GP1 and GP2. However, neither ethylbenzene nor toluene were detected in the samples analyzed. It is believed that the contaminants detected are present due to historic releases unrelated to the two solvent tanks being closed. These historic releases included a 5,000 gallon lacolene release, diesel fuel and gasoline releases, and a 500 gallon fuel oil spill.

It is recommended that no further action be taken regarding the closed tanks. With respect to the contaminants observed during the site assessment, it is recommended that these findings be addressed as part of the ongoing discussions between NYSDEC, Mobil Chemical Company, and Tenneco Packaging.

TABLE 1
RESULTS OF ANALYSIS AND COMPARISON OF VALUES TO TAGM 4046

	<u>G</u> :	<u>P1</u>	<u>GP</u>	<u>2</u>	
	Soil mg/kg ppm	Water ug/L ppb	Soil mg/kg ppm	Water ug/L ppb	<u>4046</u> <u>Value</u> ppm
PAH Compounds					
Phenanthrene	0.713	ND	0.292	*	50.0
Anthracene	0.212	ND	0.068J	*	50.0
Fluoranthene	2.036	ND	ND	*	50.0
Pyrene	1.773	ND	ND	*	50.0
Benzo(a)anthracene	0.511	ND	ND	*	0.224 or MDL
Benzo(b)fluoranthene	0.658	ND	ND	*	0.224 or MDL
Benzo(k)fluoranthene	0.380	ND	ND	*	0.224 or MDL
Benzo(a)pyrene	0.561	ND	ND	*	0.061 or MDL
Chrysene	0.671	ND	ND	*	0.4
Fluorene	0.093J	ND	0.204	*	50.0
<u>VOAs</u>					
TPH	*	13,727	*	144,300	*
Isopropylbenzene	*	38.4	*	ND	*
N-Propylbenzene	* .	84.8	*	101.3	*
tert-Butylbenzene	*	33.8	*	ND	*
1,2,4-Trimethylbenzene	*	29.4	*	511.7	*
sec-Butylbenzene	*	185.9	*	48.6	*
4-Isopropyltoluene	*	146.1	*	462.4	*
n-Butylbenzene	*	476.0	*	560.6	*
Hexachlorobutadiene	*	24.8	*	ND	*
Naphthalene	*	228.6	0.083J	317.7	13.0
Chloroform	*	ND	*	158.0	0.3
1,3,5-Trimethylbenzene	*	ND	*	217.5	*

^{*--}Intentionally Blank

ND—Not Detected

NOTE: Toluene and Ethylbenzene - Analyzed, but not detected in either sample.

APPENDIX A NYSDEC Chemical Bulk Storage Program Facility Information Report

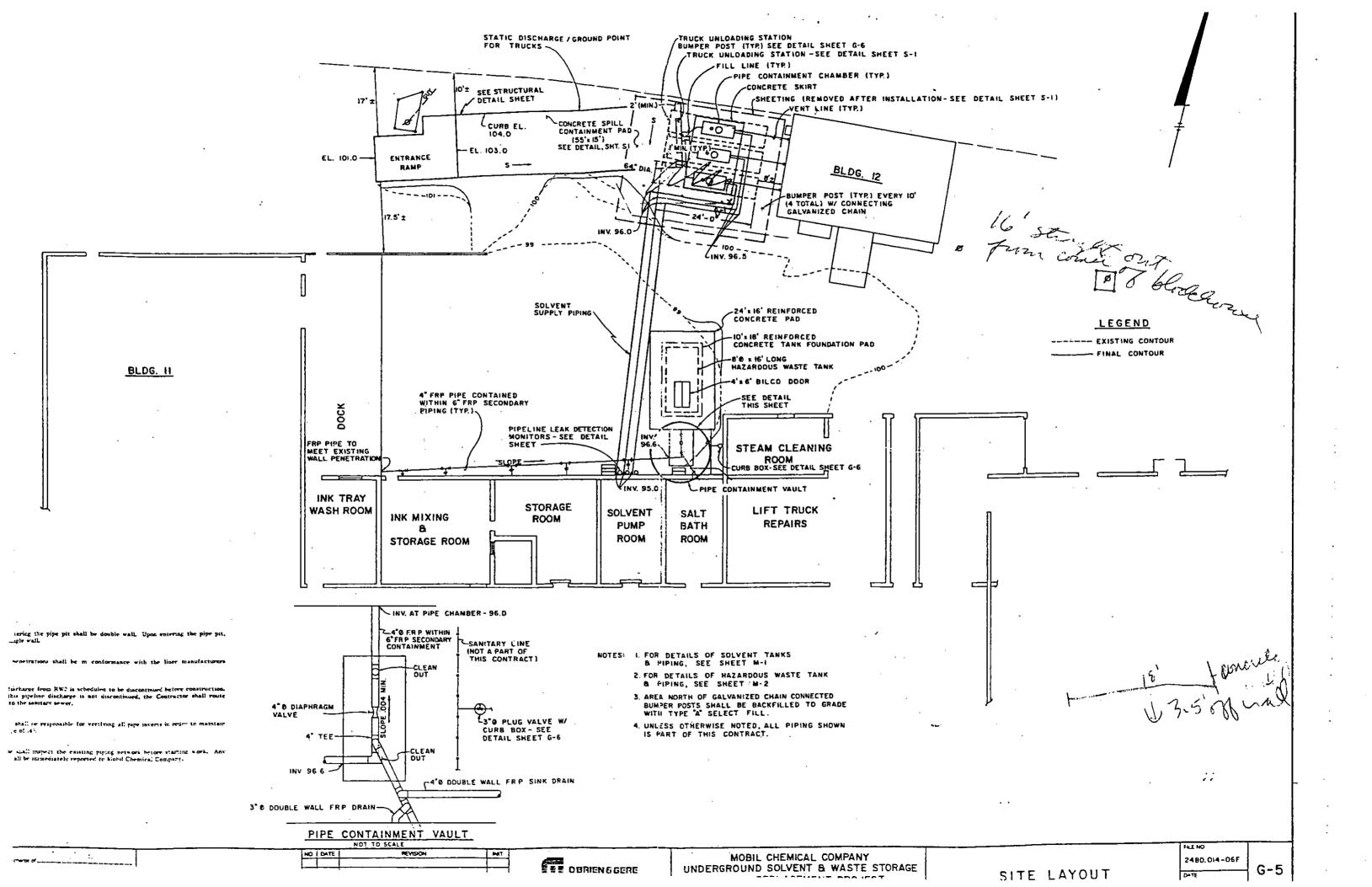
CBS # : 8-000025

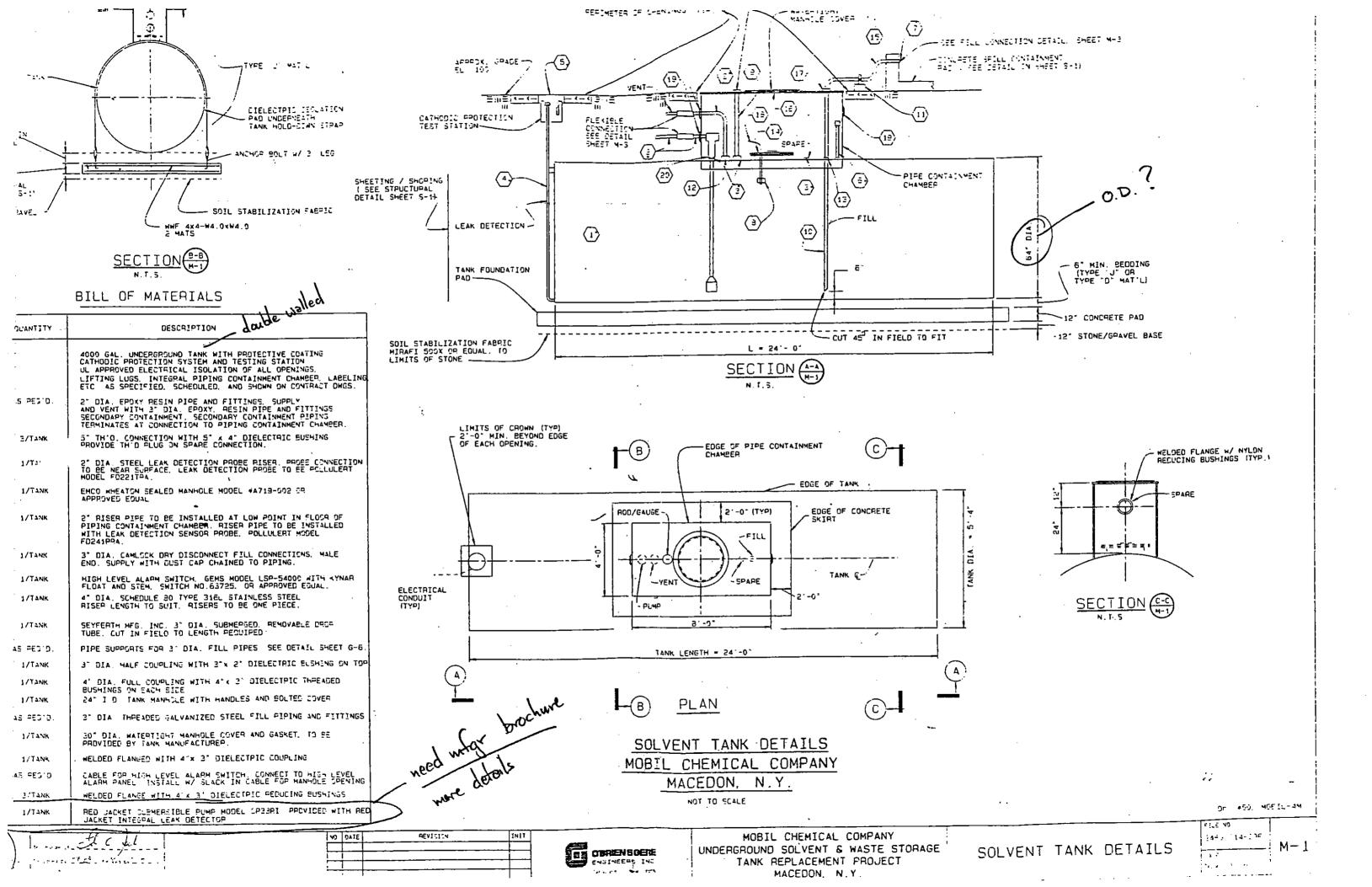
Printed : 10/20/98

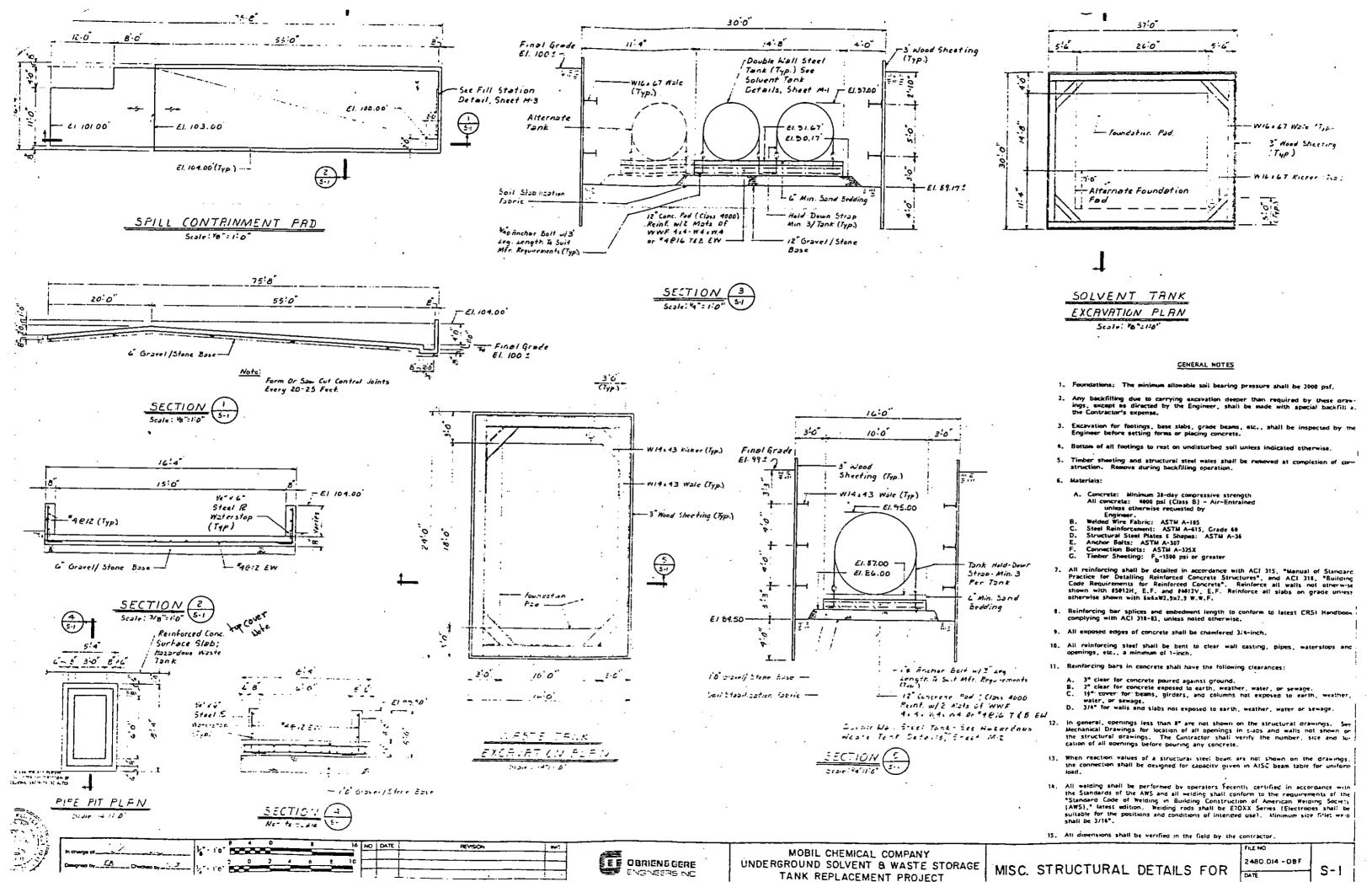
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Chemical Bulk Storage Program
Facility Information Report

~ →	TankNo	Site
5 4 07/90 5 4 07/90	Tankloc Stat Datein Capac (g) Casno	Site: TENNECO PLASTICS COMPANY 200 E. MAIN STREET MACEDON, NY 14502 COUNTY: WAYNE TOWN Latitude: N Lon Oper: RICHARD ST. JAMES Emer: RICHARD ST. JAMES Type of Site: Manufacturing SPDES #: PBS #: MOSF
4,000 4,000	Capac (g)	TOWN: MACEDIN Longitude: AMES AMES acturing MOSF #:
108883 100414	Casno	ACEDON
108883 Toluene 100414 Ethylbenzene	Chemical Name	₩ (315) 986-6253 (315) 986-6060
~ ~	TankType	Tota Date An Expir
00	TankType TankIP TankEPTankSC PipeLoc PipeType PipeIP PipeEP PipeSC Leak Spill SubDes %Haz TStat	Site Status: 2 -Unregulated Total Tanks: 0 Total Capacity: 0 Date App. Rcvd: 03/14/91 Amount Paid: 125 Cert. Date: 03/27/91 Renewal Date: 12/31/90 Expiration Date: 03/03/93 Site Stat.: 1 -No Errors Own Stat.: 1 -No Errors Tank Stat.: 0 -Major Errors
9 9	TankEPTa	us: 2 - ks: 0 ty: 0 ty: 0 vd: 03/vd: 125 te: 125 te: 13/vte: 1
4 4	inksc Pip	Unregul: 14/91 27/91 31/90 03/93 No Error No Error No Error
2 2	æLoc Pip	ated rors
5 1 5 7	жТуре	
0 0	PipeIP	Омпег:
t t	PipeEP	OWNER: TENNECO PLASTICS COMPANY 1603 ORRINGTON AVENUE EVANSTON, IL 60204 Phone: (708) 492-4418 OWNER Type: Corporate/C Mail: TENNECO PLASTICS COMPANY 100 NORTH STREET CANANDAIGUA, NY 14424 Att: WILLIAM HYATT (
4 4	PipeSC	TENNECO PLASTICS COMPANY 1603 ORRINGTON AVENUE EVANSTON, IL 60204 Phone : (708) 492-4418 Owner Type : Corporate/Commercial TENNECO PLASTICS COMPANY 100 NORTH STREET CANANDAIGUA, NY 14424 Att : WILLIAM HYATT (716) 393-
	Leak	CS COME 60204 492-441 orporat cs come T
2 2	Spills	PANY 18 te/Comm
73	ubbes %	νγ /Commercial /Υ (716) 393-3290
ច ទ	S1 ZeH;	290
CLOSED:10/91	tat	

APPENDIX B Solvent Tank Drawings and Detail Specifications







APPENDIX C Schematic of Historical Hazardous Substance Releases Near UST Closure And Sample Locations

Z F0 17 Releases from aboveground diesel fue and underground gasoline tanks (northeast of Building 11) 5,000 gallon lacolene spill area 500 gallon fuel oil release OLD ERIE CAVAL 2 Tank Closure Area and Approximate Location of Historical Releases Tenneco Packaging Excavated Area (1982) SITE SCHEMATIC NOT TO SCALE Macedon, NY CBA

APPENDIX D Laboratory Results of Sample Analysis And Boring Logs

EXPRESSLAR

PO Box 40 5611 Water Street Middlesex NY 14507

Tel: (716) 354-3347

Tel: (800) THE LABS

Tel: (880) 443-5227

FAXC (716) 554-4114

SPECIALIZING IN ENVIRONMENTAL SOIL TESTS NEW YORK STATE LABORATORY #11369

LABORATORY REPORT - METHOD 8270

Cust

MARCOR

Address 52 MARWAY CIRCLE

ROCHESTER, NY 14624

Atm:

Phone

247-6955

247-6852 FAX

PO Number:

Project Number Re-02482-001

Project Cust:

TENNECO

Project Site:

TANK CLOSURE RD.

Date FAXED:

Lab Director

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Results in bold type; Detection Limits in small print

Detection Limits* =

Soil-mg/kg ppm

CP I

Results shown are: PAH COMPOUNDS

Extraction Method: EPA 3550 Souication

Analysis Method:

EPA 8270 GC/MS

*See Individual Limit

Sample ID (LAB) Sample ID#1(CUST)

Sample ID#2(CUST)

Matrix

Sampled By

Date Sampled

Date Received

Date Analyzed

Date Reported

SOIL J. BRADSHAW 11/16/98 10:00 11/18/98 10:20 11/23/98

1/23/98

22413

Det Limit*(ppm)

Naphthalent

Accompathylene

Accompathene

Finerenc

Phesanthrene

Anthracese

Fluorenthese

Pyrena

Benzo(a)anthracenc

Chrysens

Benzo(b)fivorautheus

Benzo(k)fluoranthene

Benzo(a)pyrene

Indeno(1,2,3-c,d)pyrene

Dibenz(a,h)anthracene

Benzo(gh,i)perylene

< DL(U)	0.17
< DL(U)	0.17
< DI (U)	0.17
0,0933	0.17
0.713	0.17
0.212	0.17
2.036	0.17
1.773	0.17
0.511	0.17
9.671	0.17
0.458	0.17
0.3±0	0.17
0.361	0.17
<dl(u)< th=""><th>0.17</th></dl(u)<>	0.17
< DL(U)	0.17
< DL(U)	0.17
	

E#Exceeds calibration range

J≕Detected above MDL, but below PQL

Page 1

RESULTS WHEN YOU YYANT THEM

;# 5/12

XPRESSLA

PO Box 40 5611 Water Street Middlesex NY 14507

Tel: (716) 554-5347

Tel: (100) THE LABS

Tel: (800) 843-5227

FAX: (716) 354-4114

SPECIALIZING IN ENVIRONMENTAL SOIL TESTS NEW YORK STATE LABORATORY #11369

LABORATORY REPORT - METHOD TPH

Cust

MARCOR

Address 52 MARWAY CIRCLE **ROCHESTER, NY 14624**

Artn:

Phone **FAX**

247-6955

247-6852

PO Number:

Project Number R0-02482-001

Project Cust:

TENNECO

Project Site:

TANK CLOSURE RD.

Date FAXED:

Lab Director

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Results in bold type; Detection Limits in small print

Detection Limits 4

Soil-ug/kg ppb Water-ug/L ppb Results shown are:

Volatile Organic Analytes

Analysis Method:

Extraction Method: EPA 5030 Purge & Trap

EPA 8260 GC/MS

"See Individual Limit

Sample ID (LAB) Sample ID#1(CUST)

Sample ID#2(CUST)

Matrix

Sampled By

Date Sampled

Date Received

Date Akelyzed

Date Reported

TPH (Gas Rauge)

22416 GP 1 WATER J. BRADSHAW T1/16/98 10:30 11/18/98 10:20 11/12/02 11/19/98

Det Limit Results

13727 1000.0

Page 1

EXPRESSLAB

PO Box 40 5611 Water Street Middlesex NY 14507

Tel: (716) 334-5347

Tel: (890) THE LABS

Tel: (800) 843-5227

FAX: (716) 554-4114

SPECIALIZING IN ENVIRONMENTAL SOIL TESTS NEW YORK STATE LABORATORY #11369

LABORATORY REPORT - METHOD 8260

Cust

MARCOR

Address 52 MARWAY CIRCLE

ROCHESTER. NY 14624

Attn:

Phone

247-6955

FAX 247-6852 PO Number:

Project Number R0-02482-001

Project Cust:

TENNECO

Project Site:

TANK CLOSURE RD.

Date FAXED:

Lab Director

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Results in bold type; Detection Limits in small print

Detection Limits* = *See Individual Limit Spil-ug/kg ppb

Water=ug/L pub

Results shown are:

Volatile Organic Analytes

Extraction Method: EPA 5030 Purge & Trap

Analysis Method:

EPA 8260 GC/MS

Sample ID (LAB)

Sample ID#1(CUST)

Sample ID#2(CUST)

Matrix

Sampled By

Date Sampled

Date Received

Date Analyzed

Date Reported

22417		
GP 1		
WOY T PROPERTY.		
WATER		
J. BRADS	HAW	
11/16/98		
11/15/98	10:20	
11/18/98		
1171474		

Dichlorodiffuoromethane

Vinyl Chloride

Chloromethane

Bromomethans

Chlorosthene

Trichlorofluoromethane

1,1-Dichlorouthana

Methylene Chloride

trans-1,2-Dichiorosticue

Methyl-tert-butyl other

1,1-Dichlorocthane

2,2-Dichloropropane

cis-1,2-Dichloroethens

Methyl ethyl ketone

Bromochloromethane

Chloroform

1,1,1-Trichloreethane

1,1-Dichloropropene

11/18/98	
11/19/98	
Rosalta	Det Lindt

< DL(U)	20.0	Carbon Tetrackloride
< DL(U)	20.0	1,2-Dichloroethone
<dl(u)< th=""><th>0.08</th><th>Trichloroethene</th></dl(u)<>	0.08	Trichloroethene
<dl(u)< th=""><th>60.0</th><th>1,2-Dichloropropane</th></dl(u)<>	60.0	1,2-Dichloropropane
<dl(u)< th=""><th>50.0</th><th>Dibromomethane</th></dl(u)<>	50.0	Dibromomethane
<dl(u)< th=""><th>20.0</th><th>Bromoform</th></dl(u)<>	20 .0	Bromoform
< DL(U)	20.0	Bromodichioromethane
< DL(U)	1\$0.0	1,1,2,2-Tetrachloroethans
< DL(U)	20.0	Benzene
< DL(U)	80.0	cis-1,3-Dichleropropens
< DL(U)	30.0	Toluene
くかし(の)	80.0	tram-1,3-Dichloropropene
< DL(U)	20.0	1,1,2-Trichlornethane
< DL(U)	400,0	Tetrachlorosthene
< DL(U)	20.0	1,3-Dichloropropane
< DL(i)	50.0	Dibromochleromethane
<dl(u)< td=""><td>20.0</td><td>1,2-Dibromosthane</td></dl(u)<>	20.0	1,2-Dibromosthane

20.0 Ethylbenzens

∠ DΣ(O)	70.0
< DL(U)	20.0
<dl(u)< td=""><td>80.0</td></dl(u)<>	80.0
<dl(u)< td=""><td>20.0</td></dl(u)<>	20.0
< DI (U)	20.0
< DL(v)	100.0
<dl(0)< td=""><td>80.0</td></dl(0)<>	80.0
<pre><pre>col(u)</pre></pre>	100.0
<dl(u)< td=""><td>40.0</td></dl(u)<>	40.0
<dl(u)< td=""><td>20.0</td></dl(u)<>	20.0
< DL(U)	\$0.0
< DL(U)	20.0
< DL (U)	80.0
< DL (U)	20.0
<dl(u)< td=""><td>20.0</td></dl(u)<>	20.0
< DL(U)	BO.C
< DL(U)	80.0
< DL(U)	20.0

Page 1

* DL = Detection Limit RESULTS WHEN YOU WANT THEM

< DL/Ü)

EXPRESSLAB

PO Box 40 5611 Water Street Middlesex NY 14507

Td: (716) 354-5347

Tel. (800) THE LABS

Tel: (800) 843-5227

FAX: (716) 354-4174

SPECIALIZING IN ENVIRONMENTAL SOLL TESTS NEW YORK STATE LABORATORY #11369

LABORATORY REPORT - METHOD 8260

Cust

MARCOR

Address 52 MARWAY CIRCLE

ROCHESTER, NY 14624

Attn:

Phone

247-6955

FAX 247-6852 PO Number:

Project Number R0-02482-001

Project Cust:

TENNECO

Project Site:

TANK CLOSURE RD.

Date FAXED:

Lab Director

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Results in bold type; Detection Limits in small print

Detection Limits* = *Sea Individual Limit Soil=ug/kg ppb Water-ug/L ppb

GP Y

WATER

CDL(U)

₹**DL(U)**

< DLAU

38.4

84.8

185.9

301(0)

< DL(U)

< DL(U)

< 0170)

< DL(0)

< DL(U)

< DL(U)

< DL(U)

146.1

Results shown are:

Volatile Organic Analytes

Extraction Method: EPA 5030 Purge & Trap

Analysis Method:

EPA 8260 GC/M8

Sample ID (LAB)

Sample ID#1(CUST)

Sample ID#2(CUST)

Matrix

Sampled By

Date Sampled

Date Received

Date Analyzed

m&p-Xylene

Isopropyibenzene

n-Propyibanzene

tert-ButyMenzene

sec-Butylbenzene

1,3,5-Telmathylbenzene

1,2,4-Trimethylbenzane

o-Xylane

Styrene

Date Reported

11/16/98	10:30
11/18/98	10-20
11/18/98	
11/19/98	

J. BRADSHAW

22417

Det Limit Realts

40.0 1.2-Dichlorobenzene 20.0 n-Buty Dentene

20.0 1.2-Dibrome-3-chloropropane

20.0 1.2,4-Trichlerobenzene 20.0 Hexachiarobutadiene

20.0 Naphthalone

20.0 1,2,3-Trichlerabenzene

< DL(U)	20.0
476.0	20.0
< DL(U)	100.0
< DL(U)	40.0
24.8	20.0
228.6	100,0

100.0

< DL(U)

<DL(U)

33.8 **29.4** 20.0

20.0

20.0 60.0

20.0

20.0

20.0

20.0

20.0

20.0

20.0

1.1.1.2-Tetrachloroethane

Bromobenzene

Chlorobenzane

1.2.3-Trichleropropane

2-Chiorotoluene

4-Chlorotolueze

1,3-Dichlorobenzene

4-Isoprepyltolocae

1,4-Dichlorobenzone

< OL(U)= analyzed but not detected

Le satinated value

Bransivic found in blank

E-exceed calibration range

* DL = Detection Limit

RESULTS WHEN YOU WANT THEM

Page 2

EXPRESSLAB

PO Box 40 5611 Water Street Middlesex NY 14507

Tel: (716) 554-5347

Tel: (800) THE LABS

Tel: (800) 843-5227

FAX: (716) 554-4114

SPECIALIZING IN ENVIRONMENTAL SOIL TESTS NEW YORK STATE LABORATORY #11369

LABORATORY REPORT - METHOD 8270

Cust

MARCOR

Address 52 MARWAY CIRCLE

ROCHESTER, NY 14624

Attn.

Phone

247-6955

FAX 247-6852 PO Number:

Project Number Ro-02482-001

Project Cust:

TENNECO

Project Site:

TANK CLOSURE RD.

Date FAXED:

Lab Director

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Results in bold type; Detection Limits in small print

Detection Limits*

Soil~mg/kg ppm

Results shown are: PAH COMPOUNDS

Extraction Method: EPA 3550 Sonication

Analysis Method:

EPA 8270 GC/MS

*Sea Individual Limit Sample ID (LAB)

Sample ID#1(CUST)

Sample ID#2(CUST)

Matrix

Sampled By

Date Sampled

Date Received

Date Analyzed

Date Reported

22418		
GP 2		
SOIL		
J. BRADE	HAW	
11/16/98		
11/18/98	10:20	
11/20/98	******	
11/23/98		

Det Limit*(bym)

Naphthaleae

Acenaphthylane

Acquaphthene

Fluorene

Phonanthrene

Anthracene

Fluoranthene

Pyrene

Benzo(a)anthracezie

Chrysens

Benzo(b) fluoranthene

Beuzo(k)fluoranthene

Banzo(a)pyrane

Indepo(1,2,3-c,d)pyrene

Dibens(a,h)authracene

Benzo(g,h,i)perylene

0.083.	0.17
< DL(U)	0.17
< DL(U)	0.17
0.204	0.17
0.292	0.17
0.0683	0.17
<dl(u)< th=""><th>0.17</th></dl(u)<>	0.17
< DL(U)	0.17
< DL(U)	0.17
<dl(0)< th=""><th>0.17</th></dl(0)<>	0.17
< DL(U)	0.17
< DI.(U)	0.17
< DI(U)	0.17
< DL(0)	0.17
< DL(U)	0.17
₹₽Щ(1)	0.17

E=Exceeds calibration range

J=Delected above MDL, but below PQL

Page 1

RESULTS WHEN YOU WANT THEM

EXPRESSLA

PO Box 40 5611 Water Street Middlesex NY 14507

Tel: (716) 554-5347

Tel: (800) THE LABS

Tel: (800) 843-5237

FAX: (716) 334-4114

SPECIALIZING IN ENVIRONMENTAL SOIL TESTS NEW YORK STATE LABORATORY #11369

LABORATORY REPORT - METHOD TPH

Cust

MARCOR

Address 52 MARWAY CIRCLE

ROCHESTER, NY 14624

Attn:

Phone

247-6955

FAX

247-6852

PO Number:

Project Number R0-02482-001

Project Cust:

TENNECO

Project Site:

TANK CLOSURE RD.

Date FAXED:

Lab Director

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Results in bold type; Detection Limits in small print

Detection Limits* = *See Individual Limit Soil-ug/kg ppb

Water-ug/L ppb

Results shown are:

Volatile Organic Analytes

Extraction Method: EPA 5636 Purge & Trap

Analysis Method:

EPA 8260 GC/MS

Sample ID (LAB)

Sample ID#1(CUST)

Sample 1D#2(CUST)

Motrix

Sampled By

Date Sampled

Date Received

Date Analyzed

Date Reported

TPH (Gas Range)

7.07	19
GP 2	
337 A 2010 VA	
WATER	
J. BRADS	
11/16/98	14:30
11/12/98	10:20
11/18/98	
11/19/98	

Results Det Limit 144300 10000.0

;#10/12

EXPRESSLAB

PO Box 40 5611 Water Street Middlesex NY 14507

Tal: (716) 554-5347

Tel: (800) THE LARS

Tel: (800) 843-5227

FAX: (716) 554-4114

SPECIALIZING IN ENVIRONMENTAL SOIL TESTS NEW YORK STATE LABORATORY #11369

LABORATORY REPORT - METHOD 8260

Cost

MARCOR

Address 52 MARWAY CIRCLE

ROCHESTER, NY 14624

Attn:

Phone FAX

247-6955 247-6852

PO Number:

Project Number Rs-02482-001

Project Cust:

TENNECO

Project Site:

TANK CLOSURE RD.

Date FAXED:

Lab Director

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Results in bold type; Detection Limits in small print Detection Limits* =

Soil=ug/kg ppb

Results shown are:

Volatile Organic Analytes

*See Individual Limit

Water=ug/L ppb

Extraction Method: EPA 5039 Purge & Trap

Sample ID (LAB) Sample ID#1(CUST)

Sample ID#2(CUST)

Matrix

Sampled By

Date Sampled

Date Received

Date Anglyzed

Date Reported

Analysis Mathod:

EPA 8260 GC/MS

Dichlorodifluoromethane

Vinyl Chlorkie

Chloromethana

Bromomethane

Chloroethane

Trichlorofluoromethane

1.1-Dichloroethene

Methylene Chloride

trans-1,2-Dichloroethene

Methyl-tert-butyl ather

1,1-Dichloroethane

2,2-Dichloropropane

cis-1,2-Dichiprosthene

Methyl ethyl ketone

Bromochloromethane

Chiereform

1,1,1-Trichloroethane

1,1-Dichloropropens

* DL = Detection Limit

	120
GP 2	
WATER	
J. BRADS	HAW
11/16/98	14:30
11/18/98	10:20
11/18/98	
11/19/98	

Results Det Limite

	•		
J	< DL(U)	20.0	Carbon Tetrachloride
	< DL(U)	20.0	1,2-Dichloroothane
- 4	< DL(U)		Trichlorgethene
	< DL(U)	60.0	1,2-Dichlaropropane
ŀ	< DL(U)		Dibromomethane
ŀ	< DL(U)	20.0	Bromoform
ŀ	< DL(U)	20.0	Bramodichioromethane
ŀ	< DL(U)		1,1,2,2-Tetrachlornethane
١	2 551 (175)	30.0	

< DL(U) 20.0 Benzene < DL(U) 10,0 cls-1,3-Dichloropropens < DL(U) ZO O Toluene

< DIJU 80.0 trans-1,3-Dichloropropene < DL(0) 20.0 1.1.2-Trichlorosthane

< DIA(1) 400.0 Tetrachloroethene < DL(U) 20.0 1.3 Dichloropropage

158.0 20.0 Dibromochloromethane < DL(U) 20.0 1,2-Dibromeethane < DLO 20.0 Ethythenzene

< DL(U)	20.0
< DL(U)	80.0
< DL(U)	20.0
< DL(U)	20.0
< DL(U)	100.0
< DL(U)	80.0
<dl(0)< th=""><th>100.0</th></dl(0)<>	100.0
< DL(U)"	40.0
< DL(U)	20.0
<dl(u)< th=""><th>50.0</th></dl(u)<>	50. 0
DL(U)	20.0
(DL(O)	80.0
(a) Tat	20.0
DL(U)	20.0
DL(U)	80.0
DL(U)	80.0
DL(U)	20.0

Results Det Limit=

<DL(U)

Page 1

RESULTS WHEN YOU WANT THEM

;#11/12

EXPRESSLAB

PO Box 40 5611 Water Street Middlesex NY 14507

Tel: (716) 534-5347

Tel: (800) THE LABS

Tel: (800) 843-5227

FAX: 17160 534-4114

SPECIALIZING IN ENVIRONMENTAL SOIL TESTS

NEW YORK STATE LABORATORY #11369

LABORATORY REPORT - METHOD 8260

Cust

MARCOR

Address 52 MARWAY CIRCLE

ROCHESTER, NY 14624

Attn:

Phone

247-6955

247-6852 FAX

PO Number:

Project Number R0-02482-001

Project Cust:

TENNECO

Project Site:

TANKI CLOSURE RD.

Date FAXED:

Lab Director

SAMPLE DEMOGRAPHICS AND TEST RESULTS

Results in bold type; Detection Limits in small print

Detection Limits* = *See Individual Limit Soil=ug/kg ppb

Water=12/L ppb

Results shown are:

Volutile Organic Analytes

Extraction Method:

EPA 5030 Purgo & Trap

Analysis Method:

EPA 8260 GC/MS

Sample ID (LAB)

Sample ID#1(CUST)

Sample ID#2(CUST)

Matrix

Sampled By

Date Sampled

Date Received

Date Analyzed

Date Reported

m&p-Xylene

g-Xylene

Styrene

Isopropy[beazene

n-Propylhenzene

1,3,5-Trimethylbenzene

tert-Butylbenzene

1,2,4. Trimethylbruzene

sec-Butylbenzene

Chlorobenzene

1,1,1,2-Tetrachioroethane

Bromobenzene

1,2,3-Trichloropropane

2-Chlorotolnene

4-Chlorotolucus

1,3-Dichlerobonzene

4-Isopropyltolusue

1.4-Dichlorohenzene

22420 CP 2 WATER J. BRADSHAW 11/16/98 14:30 10:20 11/18/98 11/18/98 11/19/92

> Det Limit* Results

48.6

< DL(U)

462.4

40.0 1,2-Dichlorobenzene

< DL(U) 20.0 n-Butylbanzone < DL(U)

20.0 1.2-Dibromo-3-chloropropaus < DL/U

20.0 1.2,4-Trichlorobenzene CDL(U)

20.0 Hexachlorobutadione 101.3

20.0 Naphthalene 217.5

20.0

20.0

60.0

20.0

20.0

20.0

20.0

20.0

20.0

20.0

20.0 1.2.3-Trichlorobenzene < DL(U) 20.0

511.7

Results Det Umit

< DL(U) 20.0 20.0 560.6 100.0 < DL(U) 40.0 < BLIUT 20.0 < DL(U)

317.7 100.0 ₹DL(U) 100.0

< DL(U)= analyzed but not detected

L= estimated value

Branchto found in blank

E-conced on libration range

DL = Detection Limit

RESULTS WHEN YOU WANT THEM

Page 2

	10005		_										
	vironmen	tai Contr	actors			Log	of Boring	Sh	eet I of I	l 	 -		
Phane Its	Rocheste	er, NY 14	824							:10	-05	85-0	<u>۵</u>
				352			The Man			-1-			
rill Hetho	1 528 d: 42	908 98	2. F			·				+			•
										_			
					۲.	5`				d Bv:	140	<u> </u>	
Sample No.	Remeter: (In) Recovery (In)				Graphic Log	BROWN SOME SOME SOME BROWN	Materials Description Materials Description SILT AND MESA MA CRAVEL BECOND SILT AND SAND SILT AND AND SILT AND TAND MP GRAVEL SILT AND YEAR SIL	SAUD SAUD	Checked	Moisture Moisture	#		
				16- 17- 18- 19- 20-									
	Phone ITI Phone	Environmen 52 Mar Rocheste Rocheste Phone (rie) 247-88 riller: T Bria rill Method: 4 E smple Nethod: n orehole Diameter:	Environmental Control 52 Marway Circ Rochester, NY 14 Phone 1718/247-8855 Fex 1 Phone 1718/247-8	Parabsyany Ill Method: Leopasse Ill Method: Leopasse Sample Nethod: Marzo coase Orehole Diameter: Z.5" Wate Orehole Diameter: Z.5" Wate No. 2 18 0 2-4 18 0 3-7 18 0 3-8 24 0 3-7 18 0 3-	Environmental Contractors S2 Marway Circle Rochester, NY 14824 Phone 1716) 247-8355 Fex (716) 247-8352 ITIET: T Briadshaw IT	Environmental Contractors 52 Marway Circle Rochester, NY 14624 Phone (176) 247-8855 Fox (776) 247-8852 Filler: TENADSHAW TILL Method: LEAPRAGE Baple Nethod: MALRO CORE Orehole Diemeter: 2.5" Water Level: 6. 10-24 10-32 10-3	Environmental Contractors 82 Marway Circle Rochester, NY 14824 Phone [Tito] 247-8855 Fex (Tito] 247-8852 Filler: T Bradsham III Method: George E Bapple Method: male coase orehole Diameter: 2.5" Meter Level: 6.5 2-4 18 0 1- 8-8 24 16.5 4-10 24 197.7 5-10 12 24 109.2 6-10 12 24 109.2 6-10 12 24 109.2 10 82000 11 82000 11 82000 12 13- 14- 15- 16- 17- 18- 19-	Environmental Contractors 52 Membry Cricle Rochester, NY 14824 Rochester, NY 14824 Rothester, NY 14824 Rot	Environmental Contractors SE Merray Circle Rochester, NY 14624 PROVE PROVENESS PS PRINT PROSE PROVENESS PS PRINT PROSE PROVENESS PS PRINT PROVENESS PS PRINT PROVENESS PS PRINT PS	Environmental Contractors 52 Namys Circle Rochester, NY 14024 Rochester, NY 14024 Rochester, NY 14024 Rethod: George E Started 11.16.98 Materials Description Some mp George Some started 10. Some mp George Some started 11. Some started 11. Some started 12. Some started 13. 14. 15. 16. 16. 17. 18. 19. 19.	Environmental Contractors 52 Narway Cricle Rochester, NY 14624 Rochester, NY 14624 Rochester, NY 14624 Rochester, NY 14624 Riskert T STADSUAW Riskert Const. Riskert T STADSUAW Riskert Const. Riskert Con	Environmental Contractors 82 Manyay Cricle 83 Kanyay Cricle 84 Chester, NY 14624 80 Number: 70-0720 Elevation: 18 Method: (160 passe) 19 Materials Description 10 Started 10 1/6-98 10 1/6-9	Environmental Contractors Size Merway Cricle Size Merway Cricle Rechester, NY 14824 Prome 178 274-8555 Per 1789 247-6552 Till Method: (4 Expresses February 1882) Till Method: (5 Expresses February 1882) Till Method: (5 Expresses February 1882) Till Method: (5 Expresses February 1882) Till Method: (6 Expresses February 1882) Till Method: (6 Expresses February 1882) Till Method: (7 Expresses February

Γ		ARCOR RE	mediatio	on Inc	· · · · · · · · · · · · · · · · · · ·								
İ		vironmeni		ractors			Log	of Boring	Sheet		·	Set .	
	Rochester, NY 14624 Phone (710) 247-8855 Fax (718) 247-8852 Elevation								oer: Ro-03/82-001				
0	riller:						<u> </u>	Drissno	Date		Γ	Time	
				£ -1114	درۍ د	مهر		Started	11.16.	92		9 CO	
	•			د٥٩٤				Finished	11-16-9	 -		00	
В	orehole D	laneter:	2.4	" Wate	r Level:	17	.5'	Logged By: 7 Sex			y;		
	Semple No.	Recovery (in.)	Sample Type	PIO/FID	Depth (feet)	Graphic Log		Materials Description	on	Moisture			
	0-2 4 8 10 10 10 10 10 10 10 10 10 10 10 10 10	, 1		0 1.7 8.6 9.4 9.4 122.8	1- 2- 3- 4- 5- 6- 7- 8- 9- 10- 11- 12- 13- 14- 15- 18- 19- 20-		Bearing Some	SILTAND MY F GRAVEL ME MF GRAVEL MF GRAVEL X STAINING OR	.m6 savos	Mois			

APPENDIX E Photographs

Tenneco Packaging 200 Main Street Macedon, NY

Tank Closure Photographs and Log November 16-20, 1998

Photo #	Date	Description
1	11/16/98	Site setup which shows location of tanks, piping, vents, and first
		Geoprobe sample location.
2	11/16/98	
3	11/16/98	Geoprobe _® sample location number two.
4	11/16/98	Sample core from location number two.
5	11/16/98	View from inside Tank 1.
6	11/16/98	View from inside Tank 1.
7	11/16/98	View from inside Tank 1.
8	11/16/98	View from inside Tank 1.
9	11/16/98	View from inside Tank 1.
10	1.1/16/98	View from inside Tank 2.
11	11/16/98	View from inside Tank 2.
12	11/16/98	View from inside Tank 2.
13	11/16/98	View from inside Tank 2.
14	11/16/98	View from inside Tank 2.
15	11/16/98	View from inside Tank 2.
16	11/16/98	Tank entry setup.
17	11/16/98	Inside of Tank 2 view from above.
18	11/16/98	Inside of Tank 2 view from above.
19	11/17/98	Flowable fill being added to tank.
20	11/17/98	Flowable fill being added to tank.
21	11/20/98	Topped off with concrete.
22	11/20/98	Tanks filled in place and all piping removed.

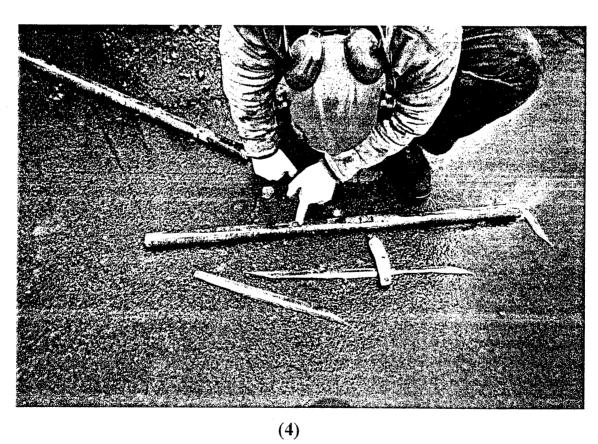


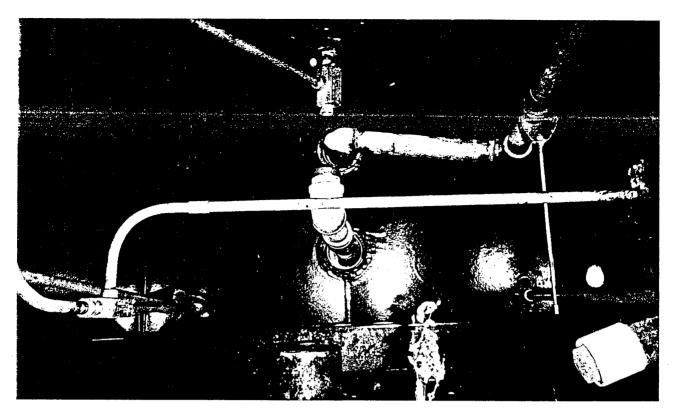
(1)



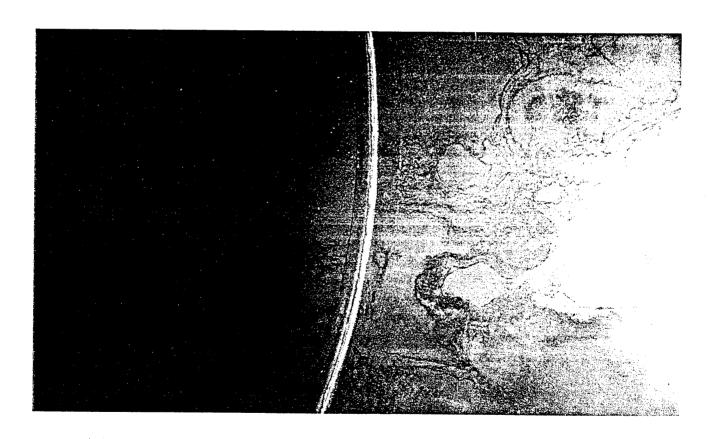


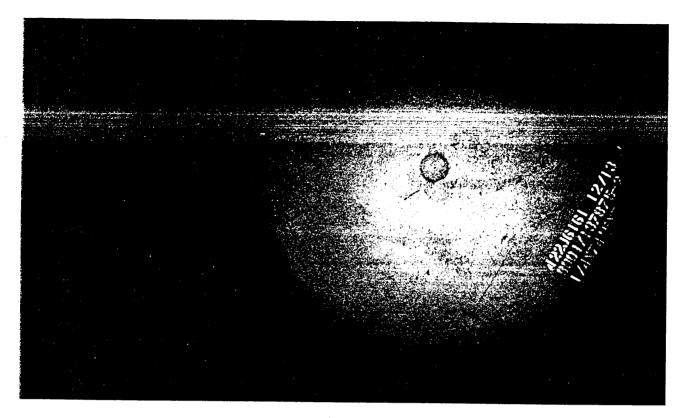
(3)



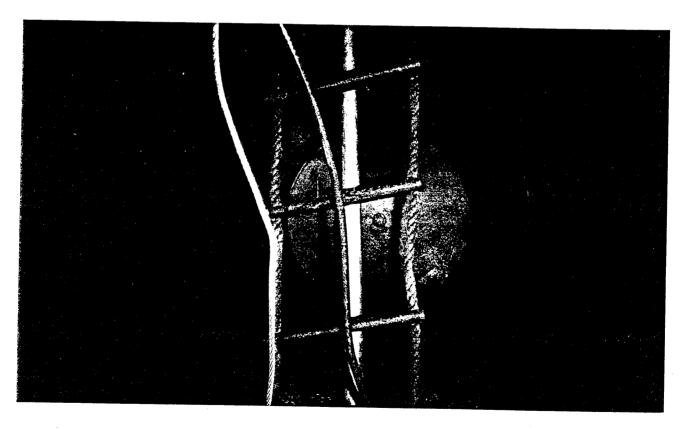


(5)

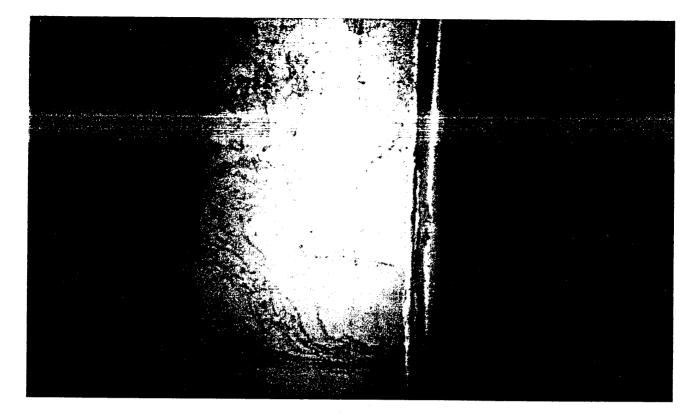




(7)



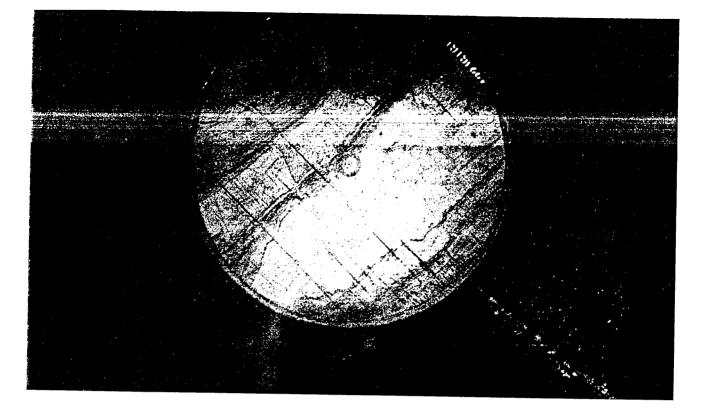
(8)



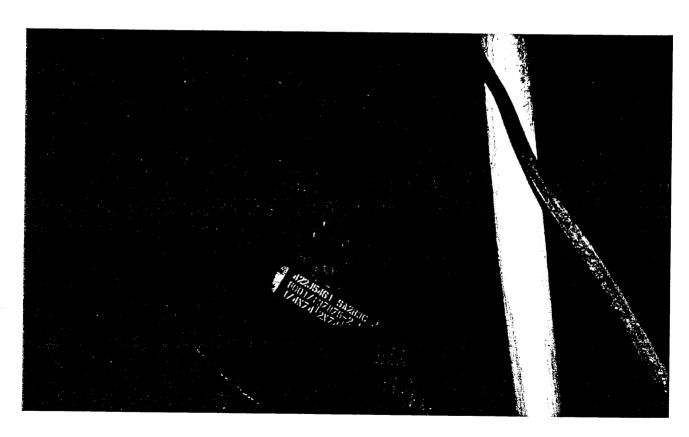
(9)

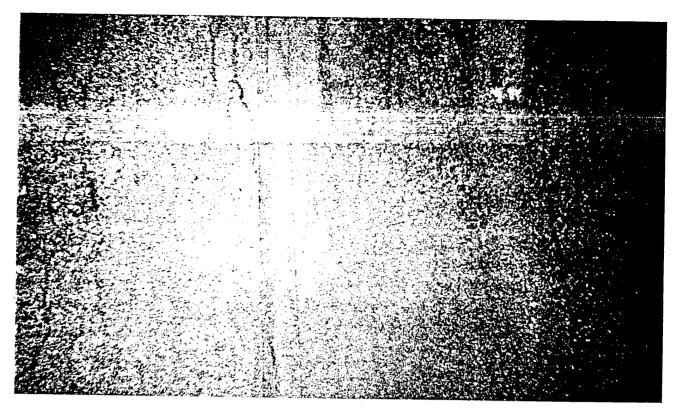


(10)

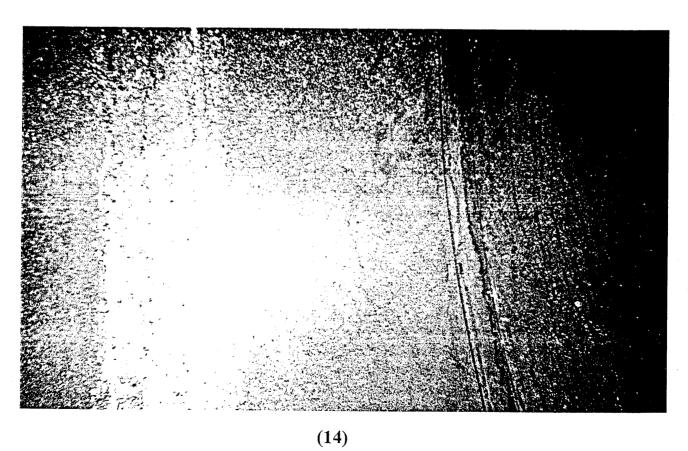


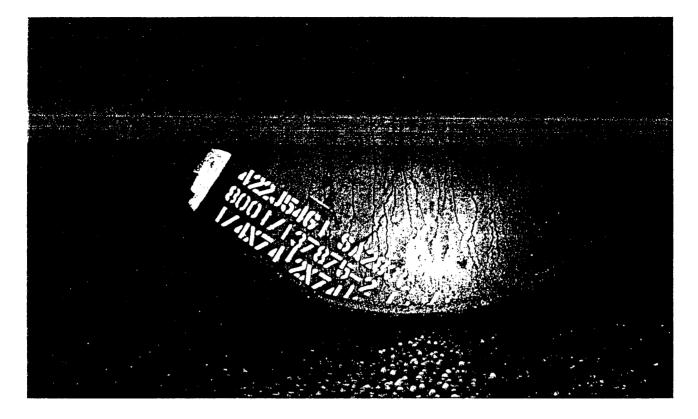
(11)



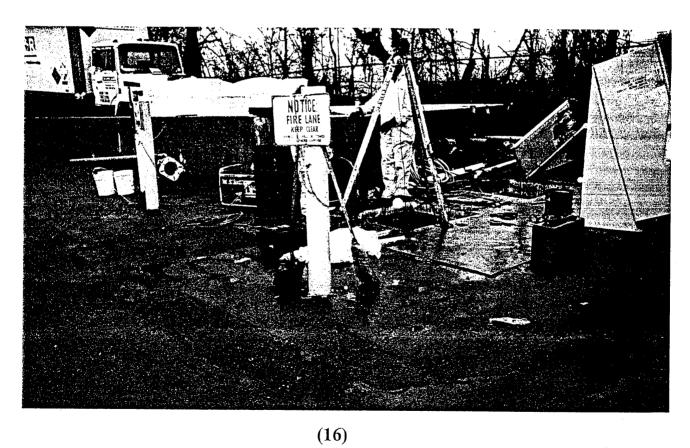


(13)



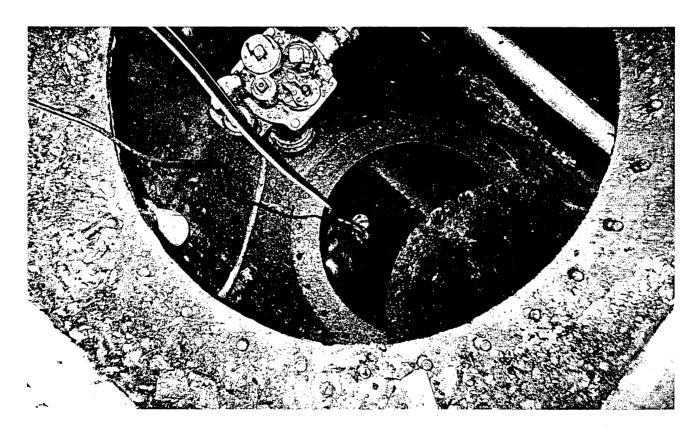


(15)

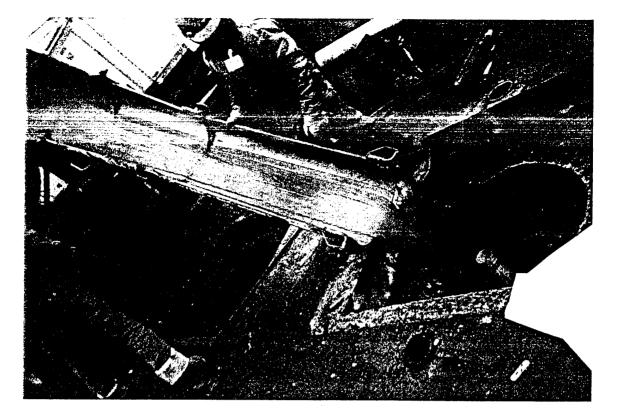




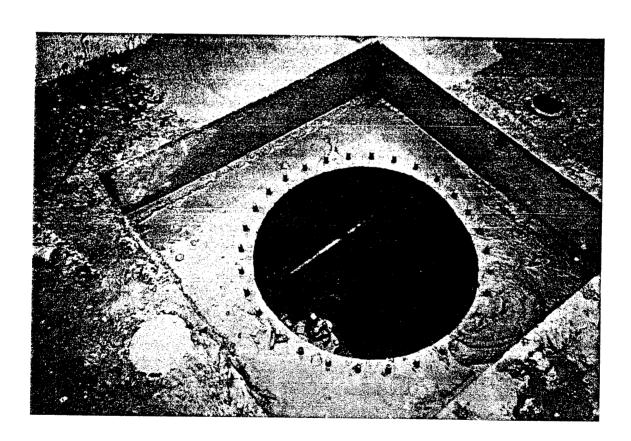
(17)



(18)



(19)





(21)

