BRRTS # 09-30-291867

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WASTE MANAGEMENT

A REPORT OF AN UNDERGROUND STORAGE TANK CLOSURE ASSESSMENT AT MAURO CHEVROLET 8845 SHERIDAN ROAD KENOSHA, WISCONSIN

PREPARED FOR:
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P.O. BOX 68
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PREPARED BY:
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PROJECT SCIENTIST
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9555 SOUTH HOWELL AVENUE
OAK CREEK, WISCONSIN 53154

PROJECT REFERENCE #TCS0743

JUNE 20, 1991

EXECUTIVE SUMMARY

Sigma Environmental Services, Inc. (Sigma) of Oak Creek, Wisconsin has been retained by OSI Environmental, Inc. to perform an underground storage tank (UST) closure assessment at the facility located at 8845 Sheridan Road, Kenosha, Wisconsin.

The closure included the excavation of two (2) 1000 gallon motor oil USTs and one (1) 1000 gallon waste oil UST, piping and associated overburden, soil sampling from within the excavations, observation and documentation of the field activities, and transportation and disposal of the tanks and their contents. The overall purpose of the closure assessment was to comply with Wisconsin Department of Natural Resources (WDNR) guidelines established September, 1990.

Soils identified within the excavations consisted of brown, silty clays with sand. Groundwater was not encountered within the excavations.

Petroleum impacted soils were not identified within the three (3) excavations. Laboratory analysis of the soils confirmed the absence of petroleum compounds.

The absence of petroleum hydrocarbons within the soils surrounding the three (3) UST systems, has prompted Sigma to recommend that clean site closure be granted.

TABLE OF CONTENTS

		Page
	EXECUTIVE SUMMARY	i
1.	INTRODUCTION	1
2.	PURPOSE AND SCOPE OF WORK	1
	2.1 General Purpose of Work	1
	2.2 Scope of Work	1
	2.3 Contractor/Personnel Performing Work	2
3.	SITE DESCRIPTION AND BACKGROUND	3
	3.1 Site Location/Setting	3
	3.2 Site Description	3
	3.3 Site History/Background	3
4.	FIELD OBSERVATIONS	3
	4.1 General Observations	3
	4.2 Excavation Geology/Hydrogeology	4
	4.3 Site Topography and Drainage	4
	4.4 Underground Utilities	4
5.	FIELD PROCEDURES/METHODOLOGIES	5
	5.1 Field Screening/Sample Selection	5
	5.2 Sample Collection Techniques	5
	5.3 Tank Cleaning and Removal	6
6.	LABORATORY ANALYSIS/WISCONSIN REGULATIONS	6
	6.1 Confirmatory Soil Sample Analysis	6
	6.2 Wisconsin Soil Quality Regulations	7
7.	SUMMARY AND CONCLUSION	7
8.	RECOMMENDATIONS	9
9.	LIMITATIONS OF INVESTIGATION	9

LIST OF TABLES

Table		Page
1.	PID Values/Laboratory Results.....	7

LIST OF APPENDICES

A. Receipt - UST Residual Material

B. Receipt - UST Scrap Metal

C. UST Inventory Form (SBD 7437)

D. Laboratory Analysis - Soils

E. Laboratory Methodologies - TPH Soil

F. Chain-of-Custody Document

1. INTRODUCTION

Sigma Environmental Services, Inc. has been retained by OSI Environmental, Inc., representatives to conduct an underground storage tank closure assessment report at the facility located at 8845 Sheridan Road, Kenosha, Wisconsin. The purpose of this report is to provide documentation of the closure assessment services performed on April 8, 1991. The report identifies the personnel involved with the project, and details the appropriate site information, field procedures and observations and all laboratory analysis required by the Wisconsin Department of Natural Resources (WDNR) regulations. The report also presents recommendations for site closure. Due to professional and time constraints, this report was prepared by Sigma Environmental Services, Inc. utilizing data provided by OSI Environmental, Inc.

2. PURPOSE AND SCOPE OF WORK

2.1 General Purpose of Work. The purpose of the subsurface closure assessment was to determine if the underground storage tank systems (USTs) had an adverse impact on the surrounding native soils. Notification of the removal of the UST, and associated piping run was given to the Kenosha Fire Prevention Bureau.

2.2 Scope of Work. The following tasks were performed pertinent to the excavation and removal of three (3) 1000 gallon UST systems.

- Visual inspection of the excavations for indications of petroleum hydrocarbon impacts.
- Field screening of the backfill material and native soils for sample selection.
- Collection of soil samples and laboratory analysis for Total Petroleum Hydrocarbons (TPH).

- Documentation of the excavation geology, tank system integrity, and underground utilities.

- Documentation of the transportation and disposal of the UST and associated waste/sludge.

- Preparation of this assessment report which discusses observations, procedures, and recommendations for the site.

2.3 Contractor/Personnel Performing Work. The following personnel were involved in the UST closure assessment:

Environmental Consulting Firm

Sigma Environmental Services, Inc.
9555 South Howell Avenue, Suite 100
Oak Creek, Wisconsin 53154

Laboratory Services

CBC Environmental Laboratories
140 East Ryan Road
Oak Creek, Wisconsin 53154
WDNR Certification #241283020

Excavating Contractor

OSI Environmental, Inc.
P.O. Box 68
Pleasant Prairie, Wisconsin 53158

Tank Cleaning and Disposal Contractor

Oil Services, Inc./Racine Recycling Industries
2020 Springdale Road
Waukesha, Wisconsin 53187

3. SITE DESCRIPTION AND BACKGROUND

3.1 Site Location/Setting. The site is located in the Southwest ¼ of the Northeast ¼ of the Section 18, Township 1 North, Range 23 East, City of Kenosha, Kenosha County, Wisconsin, specifically at 8845 Sheridan Road, City of Kenosha, Wisconsin (see Figure 1). The site is located in a predominately commercial region of the City of Kenosha.

3.2 Site Description. The site contains a showroom, garage, and parking lot. The facility is supplied by overhead electrical and telephone service. The majority of the site is covered by asphalt. The site layout and locations of significant features are presented in the Site Plan Location Map (see Figure 2).

3.3 Site History/Background. According to Mauro Chevrolet representatives, the facility has been in operation for approximately 30 years and has conducted commercial operations. Three (3) 1000 gallon USTs, containing waste oil and motor oil, were used for drain and automobile oil storage. The tanks are believed to be approximately 28 years old. The tanks are constructed of bare steel.

4. FIELD OBSERVATIONS

4.1 General Observations. On April 8, 1991, OSI personnel observed the excavation and removal of three (3) 1000 gallon motor oil USTs and associated piping. The ambient temperature was approximately 60° with 80% humidity. Clean overburden was removed with a backhoe, screened and staged on-site for future use as backfill

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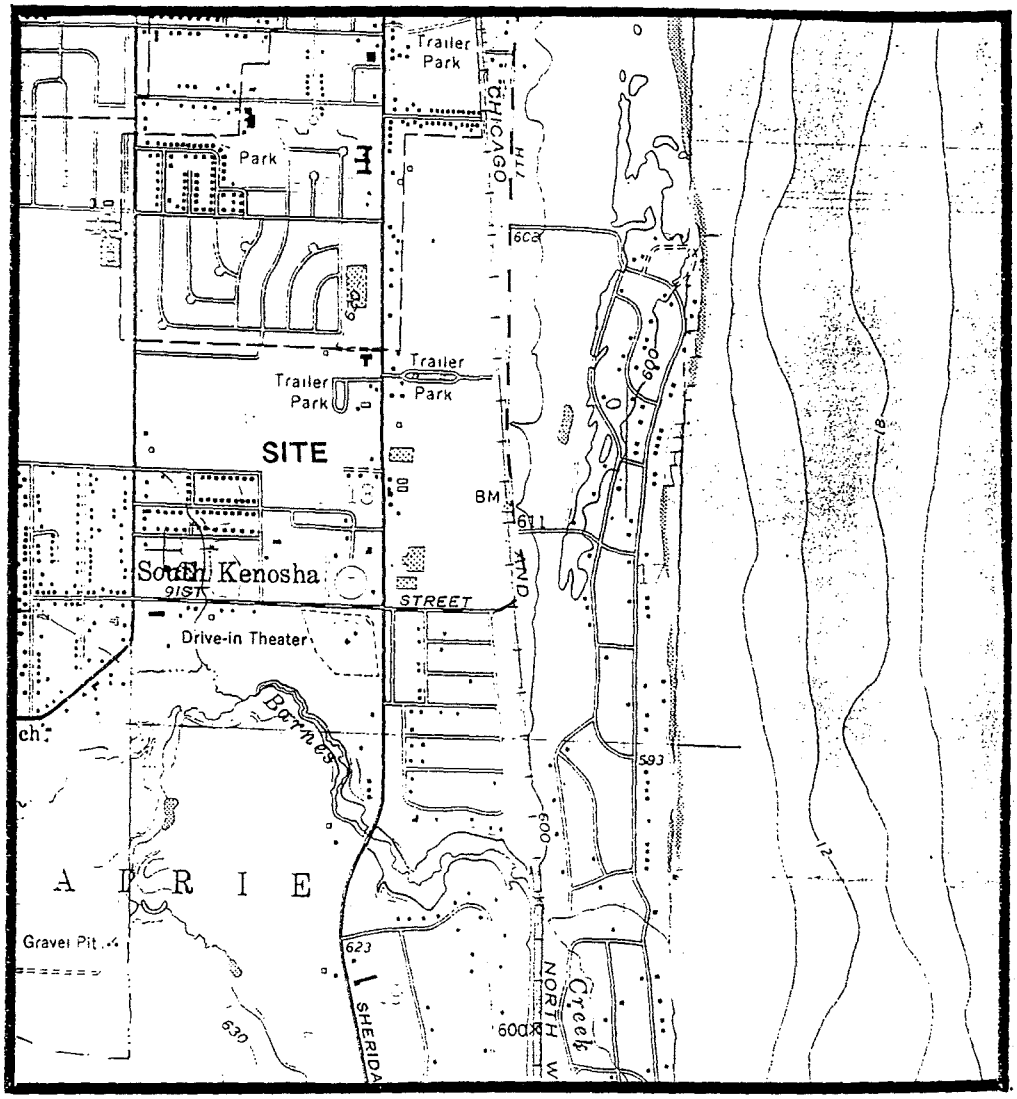

SIGMA ENVIRONMENTAL SERVICES INC.

FIGURE 1

SCALE:	APPROVED BY:	DRAWN BY
DATE:	SITE LOCATION MAP	REVISED

MAURO CHEVROLET
8845 SHERIDAN ROAD
KENOSHA, WISCONSIN

Adapted From U.S.G.S 7.5 Minute Kenosha, Quadrangle

DRAWING NUMBER

material. The USTs were found buried approximately ten feet below ground surface (bgs). The USTs were orientated in a north/south direction perpendicular to the facility. The piping was buried two feet bgs, and ran northerly into the facility.

Prior to UST removal, excess product and free liquids were pumped out by Oil Services, Inc. to a level approximately two inches above the bottom of the tank. After product removal, the USTs were removed from the excavation intact and visually inspected for their structural integrity. The tanks were observed to be in fair condition with minor pitting. The piping appeared to be in good shape, with no visual indications of leakage.

The overall dimensions of the excavation was 23 feet wide, 18 feet long, and 8 feet deep. The excavation was inspected, and no evidence of impacted or stained soil was noted. Additionally, no petroleum odors were emanating from the excavation.

4.2 Excavation Geology/Hydrogeology. The stratigraphy, as evidenced during excavation consists of one homogenous stratigraphic units.

- The unit consists of a brown, silty clay with sand which extends beyond the depth that excavation was terminated at 8 feet bgs.

4.3 Site Topography and Drainage. The overall topography of the site is classified as flat. Surficial drainage is toward the west, and is controlled by storm sewer.

4.4 Underground Utilities.

No buried utilities were present within the area of interest.

5. FIELD PROCEDURES/METHODOLOGIES

5.1 Sample Collection Techniques. Soil samples were collected in locations required by the WDNR from within the excavations. The WDNR specifies that soil samples be collected from native soils in the following areas:

- 1-3 feet below each end of the tank.
- 1-3 feet below each island on the supply side.
- One sample, 1-3 feet below every twenty feet of piping, preferably at elbows or swing joints.
- Five feet below remote fill pipe openings.

Samples were collected at the base of each end of the three (3) USTs, utilizing the backhoe bucket for safety considerations. Two (2) samples were collected from each sampling location and immediately containerized. Preferential sample collection was given to areas visibly stained or where odors were evident, however, neither strong odors nor visible staining were noted. The first sample was contained in a four ounce glass jar and sealed with a teflon-lined screw on cap. The sample jar was filled to the top, so that no headspace remained. Each sample was properly labeled and placed in an iced cooler for transport to the laboratory for analysis. The second sample was contained in a clean, four ounce glass jar sealed with a screw-on cap. The sample jar was filled approximately ½ to ¾ full to allow for headspace screening. Soil sample locations are presented in Figure 2.

5.2 Field Screening. An HNU Photoionization Detector (PID), was used to screen each soil sample for the presence of Volatile Organic Compounds by means of

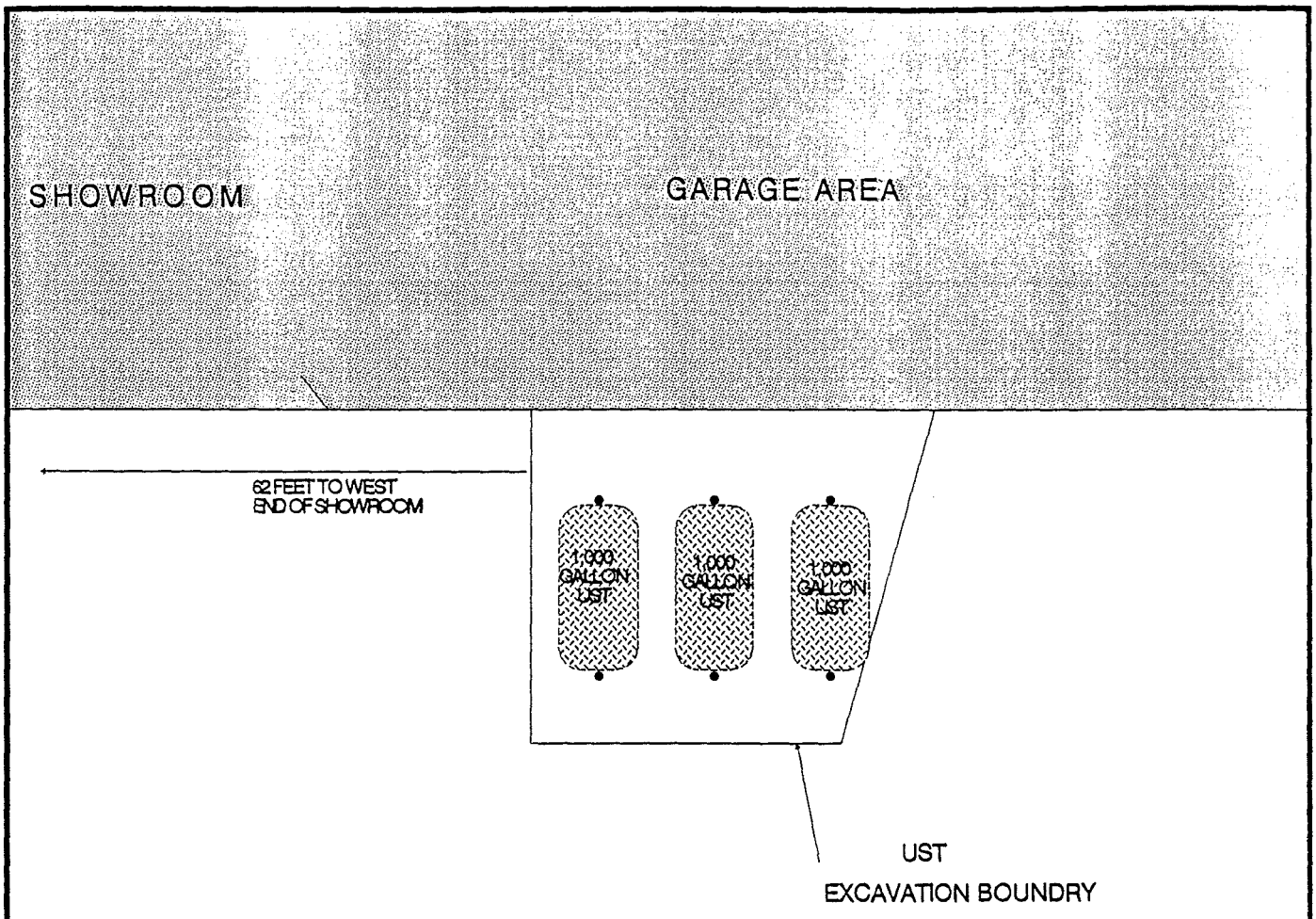

FIGURE 2

SAMPLE LOCATION MAP

MAURO CHEVROLET

8845 SHERIDAN ROAD

KENOSHA, WISCONSIN

North

SCALE: 1"=10'

SIGMA
ENVIRONMENTAL SERVICES INC.

headspace analysis. The PID utilized a 10.6 electron volt (eV) lamp. Prior to headspace analysis, each soil sample was allowed to equilibrate to approximately 70° F, and vigorously agitated to break up large clumps and facilitate vapor release. Soil sample headspace analysis results are summarized in Table 1.

5.3 Tank Cleaning and Removal. As previously noted, the UST was removed intact from the excavation. After purging the UST vapor free, the tank was cleaned. The free liquids were captured with oil sorbent and, together with the residual sludge, containerized in DOT 17-H 55-gallon drums. Approximately 270 gallons of material was collected. A receipt of the drummed material is presented as Appendix A.

The UST and associated piping was removed from the site by Racine Recycling Industries, and cut into pieces for scrap metal. A receipt of the scrapped material is included as Appendix B. Tank inventory form(s), (SBD 7437) are presented in Appendix C.

6. LABORATORY ANALYSIS/WISCONSIN REGULATIONS

6.1 Confirmatory Soil Sample Analysis. Six (6) soil samples were collected from the base at each end of the USTs. The samples, accompanied with a Chain-of-Custody, were submitted to CBC Environmental Laboratories for analysis of Total Petroleum Hydrocarbons (TPH). Laboratory analysis results indicate that no significant petroleum hydrocarbon contamination was present in the native soils surrounding the UST system. TPH concentrations below the method detection limit of 4.0 ppm were recorded for each of the samples submitted. The laboratory results are included as Appendix D, and summarized in Table 1. Laboratory methodologies are included as Appendix E. The Chain-of Custody document is included as Appendix F.

TABLE 1
PID VALUES/LABORATORY RESULTS

Location	Depth(bgs)	PID Values	TPH Laboratory Results
#1 Base-North	8 feet	N/D	<4.0 ppm
Base-South	8 feet	N/D	<4.0 ppm
#2 Base-North	8 feet	N/D	<4.0 ppm
Base-South	8 feet	N/D	<4.0 ppm
#3 Base-North	8 feet	N/D	<4.0 ppm
Base-South	8 feet	N/D	<4.0 ppm

N/D = No Detection
ppm = Parts Per Million

6.2 Wisconsin Soil Quality Regulations. The WDNR reviews each case individually to determine if additional investigation or some type of remediation is necessary. Currently, the WDNR is enforcing a cleanup guideline of 10 ppm for petroleum hydrocarbons (TPH) in soil. All six (6) soil samples which were submitted for TPH laboratory analysis, fell below the WDNR established guideline.

7. SUMMARY AND CONCLUSION

The following project summary is based on the observations and data collected during the underground storage tank (UST) closure assessment performed on April 8, 1991, at the Mauro Chevrolet facility located at 8845 Sheridan Road, Kenosha, Wisconsin. The purpose of the closure assessment was to determine if petroleum contamination existed around the UST system.

- Three (3) 1000 gallon USTs -- two (2) containing motor oil and one (1) containing waste oil -- were pumped, cleaned, purged of explosive vapors and removed in accordance with state and local regulations. The USTs were constructed of steel and are believed to be 28 years old.

- The UST appeared to be structurally intact, with evidence of minor pitting. The piping was intact, with no indications of leakage from joints.

- The site stratigraphy consists of one (1) homogeneous unit, a brown silty clay with sand. The unit extends beyond the excavation termination depth of 8 feet bgs.

- No underground utilities were noted entering the excavation.

- Six (6) soil samples were collected from the following locations as specified by the WDNR: Two (2) samples beneath each end of the UST.

- Native soils and backfill material were screened utilizing a Photoionization Detector (PID).

- All six (6) soil samples submitted for Total Petroleum Hydrocarbon laboratory analysis exhibited concentrations below the method detection limit of 4.0 ppm, and therefore fell below the 10 ppm WDNR cleanup standard for petroleum impacted soils.

- Sludge was removed from within the UST's interior, containerized in 55 gallon drums, and transported to OSI's bulk facility.

- The UST and piping were cut into pieces for scrap metal.

- The excavation was backfilled with gravel and compacted to grade.

8. RECOMMENDATIONS

Based upon observations and data obtained during the removal of the three underground storage tanks and associated piping at Mauro Chevrolet in Kenosha, Wisconsin, Sigma Environmental recommends no further investigation. Furthermore, clean closure is requested from the Wisconsin Department of Natural Resources and the Wisconsin Department of Industry, Labor, and Human Relations.

9. LIMITATIONS OF INVESTIGATION

This report was prepared under constraints of cost, time, and scope, and reflects a limited assessment and evaluation rather than a full, total, complete or extensive assessment and evaluation.

Our assessment was performed using the degree of care and skill ordinarily exercised, under similar circumstances, by Professional Consultants practicing in this or similar localities. No other warranty or guarantee, expressed or implied, is made as to the conclusion and professional advice included in this report.

The findings of this report are valid as of the present date of the assessment. However, changes in the conditions of a property can occur with the passage of time, whether due to natural processes or the works of man on this or adjacent properties. In addition, changes in applicable or appropriate standards may occur, whether they result from legislation, from the broadening of knowledge, or from other reasons. Accordingly, the findings of this report may be invalidated wholly or partially by changes outside our control.

The interpretations and conclusions contained in this report are based upon the result of independent laboratory tests and analysis intended to detect the presence and/or concentrations of certain chemical constituents in samples taken from the subject property.

Sigma Environmental Services, Inc. has no control over such testing and analysis and therefore, disclaims any responsibility for any errors and omissions arising therefrom.

A subsurface exploration was performed and presented in this report. However, subsurface exploration cannot reveal totally what is below the surface. Depending upon the sampling method and frequency, every soil condition may not be observed, and some materials or layers which are present in the subsurface may not be noted.

This report is issued with the understanding that it is the responsibility of the owner(s) to ensure that the information and recommendations contained herein are brought to the attention of the appropriate regulatory agency(ies).

This document contains proprietary and confidential information which is the sole and exclusive property of Sigma Environmental Services, Inc. and OSI Environmental, Inc. This document may not be used or duplicated in any manner without the express written consent of Sigma Environmental Services, Inc. and OSI Environmental, Inc.

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APPENDIX A

RECEIPT - UST RESIDUAL MATERIAL

6309

Oil Services, Inc.

2020 Springdale Road
P.O. Box 587
Waukesha, WI 53187
(414) 548-1482

1846 Fairlane
Greenleaf, WI 54126
(414) 499-1073

WDNR 12103 • EPA# WID981959257

Quality Used Oil Recyclers

NAME OSI-E

ADDRESS

CITY Kenosha, WI

SOLD BY GARY DATE 4-8-91

☐ CASH ☐ C.O.D.	☒ CHARGE ☐ PAID OUT	☐ MDSE. RET'D. ☐ PAID ON ACCT.	PREVIOUS BALANCE

MANIFEST

	Dump Out Waste
	Oil 1420 from
	Mazda Chevrolet Site
	* Mostly Water
270	Gallons

RECEIVED BY _____ DATE _____

Thank You!

"This used oil is subject to E.P.A. Regulations under 40CFR Part 266"

APPENDIX B

RECEIPT - UST SCRAP METAL

Mauro Chevrolet Tank Disposal

RACINE RECYCLING INDUSTRIES

SEQ. NO.	GROSS WT. (LB)	DATE
131940	6990	04/17/9

000276 O.S.I. ENVIRONMENTAL #520429

CODE	MATERIAL	$ / UNIT	TARE WT. (LB)	NET WT. (LB)	ADJUSTED NET WT. (LB)	AMOUNT
0015	UNPREPARED PLATE & STRUCTURAL	72.00/NT		6990		251.64
				TOTAL	CHECK	$251.64

APPENDIX C

UST INVENTORY FORM (SBD 7437)

Wisconsin Department of Industry, Labor and Human Relations

For Office Use Only:
Tank ID #

UNDERGROUND PETROLEUM PRODUCT TANK INVENTORY

Send Completed Form To:
Safety & Buildings Division
P O Box 7969
Madison, WI 53707
Telephone (608) 267-5280

This form is to be completed pursuant to Section 101.142, Wis. Stats., to register all underground tanks in Wisconsin that have stored or currently store petroleum or regulated substances. Please see the reverse side for additional information on this program. An underground storage tank is defined as any tank with at least 10 percent of its total volume (included piping) located below ground level. **A separate form is needed for each tank. Send each completed form to the agency designated in the top right corner.**

This registration applies to a tank that is (check one):
1 ☐ In Use
2 ☐ Abandoned With Product
3 ☐ Abandoned No Product (empty) or With Water
4 ☑ Abandoned - Tank Removed
6. ☐ Abandoned - Filled With Inert Material
7 ☐ Out of Service

Fire Department Providing Fire Coverage Where Tank Located: Kenosha

A. IDENTIFICATION: (Please Print)

1 Installation Name: MAURO Chevrolet
Installation Street Address: 8345 SHERIDAN RD.AP
☑ City ☐ Village ☐ Town of: Kenosha
State: WI. Zip Code: 53143 County: Kenosha

2 Mailing Name if Different Than #1:
Mailing Address if Different Than #1:
☐ City ☐ Village ☐ Town of:
State: Zip Code: County:

3 Name of Contact Person: STEVE KREJCI
Street Address: -SAME-
☐ City ☐ Town ☐ Village of:
State: Zip Code:
County: Telephone No (include area code): 414-694-1515

4 Owner Name if Different Than #3: RALPH MAURO
Street Address: -SAME-
☐ City ☐ Town ☐ Village of:
State: Zip Code:
County: Telephone No. (include area code): 414-694-1515

5 Tank Age (date installed, if known: or years old): ≈1962
6 Tank Capacity (gallons): 1000
7 Tank Manufacturer's Name (if known):

B. TYPE OF USER (check one):

1 ☐ Gas Station 2 ☐ Bulk Storage 3. ☐ Utility 4 ☐ Mercantile
5 ☐ Industrial 6 ☐ Government 7. ☐ School 8. ☐ Residential
9 ☐ Agricultural 10 ☑ Other (specify): Auto Dealership

C. TANK CONSTRUCTION:

1 ☑ Bare Steel 2. ☐ Cathodically Protected and Coated Steel (☐ Sacrificial Anodes or ☐ Impressed Current)
3. ☐ Coated Steel 4. ☐ Fiberglass 5 ☐ Other (specify): _____
6. ☐ Relined 7. ☐ Steel - Fiberglass Reinforced Plastic Composite

Is tank UL Approved? ☐ Yes ☐ No
Is Tank Double Walled? ☐ Yes ☐ No

Overfill Protection Provided? ☐ Yes ☐ No If yes, identify type:

D. PIPING CONSTRUCTION

1 ☑ Bare Steel 2 ☐ Cathodically Protected Steel (With Coating? ☐ Yes ☐ No) 3 ☐ Coated Steel
4 ☐ Fiberglass 5 ☐ Other (specify): _____ 6 ☐ Unknown

Cathodic Protection By: ☐ Sacrificial Anodes or ☐ Impressed Current
UL Approved? ☐ Yes ☐ No
Double Walled ☐ Yes ☐ No

E. TANK CONTENTS

1. ☐ Diesel 2. ☐ Leaded 3. ☐ Unleaded 4 ☐ Fuel Oil
5. ☐ Gasohol 6 ☐ Other 7 ☐ Empty 8 ☐ Sand/Gravel/Slurry
9 ☐ Unknown 10. ☐ Premix 11. ☑ Waste Oil 12 ☐ Propane
13. ☐ Chemical * _____ _____ _____ 14. ☐ Kerosene 15. ☐ Aviation

* If # 13 is checked, indicate the chemical name(s) or number(s) of the chemical or waste

If Tank Abandoned, Give Date (mo/day/yr): 4-8-91
Has Clean Closure Status been verified? (see reverse side for details) ☑ Yes ☐ No

If installation of a new tank is being reported, indicate who performed the installation inspection:
1 ☐ Fire Department 2. ☐ DILHR 3 ☐ Other (identify) _____

Signature of Person Completing Report: [signature]
Date Signed: 5/9/91

SBD 7437 (R 08/88)

Wisconsin Department of Industry, Labor and Human Relations

For Office Use Only:
Tank ID #

UNDERGROUND PETROLEUM PRODUCT TANK INVENTORY

Send Completed Form To:
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Madison, WI 53707
Telephone (608) 267-5280

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1 ☐ In Use
2 ☐ Abandoned With Product
3 ☐ Abandoned No Product (empty) or With Water
4 ☑ Abandoned - Tank Removed
6. ☐ Abandoned - Filled With Inert Material
7 ☐ Out of Service

Fire Department Providing Fire Coverage Where Tank Located: KENOSHA

A. IDENTIFICATION: (Please Print)

1 Installation Name: MAURO Chevrolet
Installation Street Address: 8845 SHERIDAN ROAD
☑ City ☐ Village ☐ Town of: KENOSHA
State: WI | Zip Code: 53143 | County: KENOSHA

2 Mailing Name if Different Than #1:
Mailing Address if Different Than #1:
☐ City ☐ Village ☐ Town of:
State: | Zip Code: | County:

3 Name of Contact Person: STEVE KRETCI
Street Address: -SAME-
☐ City ☐ Town ☐ Village of: | State: | Zip Code:
County: | Telephone No. (include area code): 414-694-1515

4 Owner Name if Different Than #3: RALPH MAURO
Street Address: -SAME-
☐ City ☐ Town ☐ Village of: | State: | Zip Code:
County: | Telephone No. (include area code): 414-694-1515

5 Tank Age (date installed, if known; or years old): ≈1962
6 Tank Capacity (gallons): 1,000
7 Tank Manufacturer's Name (if known):

B. TYPE OF USER (check one):

1 ☐ Gas Station 2 ☐ Bulk Storage 3. ☐ Utility 4 ☐ Mercantile
5 ☐ Industrial 6 ☐ Government 7. ☐ School 8. ☐ Residential
9 ☐ Agricultural 10 ☑ Other (specify): AUTO DEALERSHIP

C. TANK CONSTRUCTION:

1 ☑ Bare Steel 2. ☐ Cathodically Protected and Coated Steel (☐ Sacrificial Anodes or ☐ Impressed Current)
3. ☐ Coated Steel 4. ☐ Fiberglass 5. ☐ Other (specify): _____
6 ☐ Relined 7. ☐ Steel - Fiberglass Reinforced Plastic Composite

Is tank UL Approved? ☐ Yes ☐ No | Is Tank Double Walled? ☐ Yes ☐ No

Overfill Protection Provided? ☐ Yes ☐ No If yes, identify type:

D. PIPING CONSTRUCTION

1. ☑ Bare Steel 2. ☐ Cathodically Protected Steel (With Coating? ☐ Yes ☐ No) 3. ☐ Coated Steel
4 ☐ Fiberglass 5 ☐ Other (specify): _____ 6 ☐ Unknown

Cathodic Protection By: ☐ Sacrificial Anodes or ☐ Impressed Current | UL Approved? ☐ Yes ☐ No | Double Walled ☐ Yes ☐ No

E. TANK CONTENTS

1. ☐ Diesel 2. ☐ Leaded 3. ☐ Unleaded 4. ☐ Fuel Oil
5. ☐ Gasohol 6 ☑ Other ATF 7 ☐ Empty 8 ☐ Sand/Gravel/Slurry
9 ☐ Unknown 10. ☐ Premix 11 ☐ Waste Oil 12 ☐ Propane
13. ☐ Chemical * _____ _____ _____ 14. ☐ Kerosene 15. ☐ Aviation

* If # 13 is checked, indicate the chemical name(s) or number(s) of the chemical or waste

If Tank Abandoned, Give Date (mo/day/yr): 4-8-91
Has Clean Closure Status been verified? (see reverse side for details) ☑ Yes ☐ No

If installation of a new tank is being reported, indicate who performed the installation inspection:
1 ☐ Fire Department 2. ☐ DILHR 3 ☐ Other (identify) _____

Signature of Person Completing Report: T. McGovern
Date Signed: 5-9-91

SBD 7437 (R 08/88)

Wisconsin Department of Industry, Labor and Human Relations

For Office Use Only:
Tank ID #

UNDERGROUND PETROLEUM PRODUCT TANK INVENTORY

Send Completed Form To:
Safety & Buildings Division
P O Box 7969
Madison, WI 53707
Telephone (608) 267-5280

This form is to be completed pursuant to Section 101 142, Wis Stats., to register all underground tanks in Wisconsin that have stored or currently store petroleum or regulated substances. Please see the reverse side for additional information on this program. An underground storage tank is defined as any tank with at least 10 percent of its total volume (included piping) located below ground level. **A separate form is needed for each tank. Send each completed form to the agency designated in the top right corner.**

This registration applies to a tank that is (check one):
1 ☐ In Use
2 ☐ Abandoned With Product
3 ☐ Abandoned No Product (empty) or With Water
4 ☑ Abandoned - Tank Removed
6. ☐ Abandoned - Filled With Inert Material
7 ☐ Out of Service

Fire Department Providing Fire Coverage Where Tank Located: Kenosha

A. IDENTIFICATION: (Please Print)

1 Installation Name: MAURO Chevrolet
Installation Street Address: 8845 SHERIDAN ROAD
☑ City ☐ Village ☐ Town of: Kenosha
State: WI | Zip Code: 53143 | County: KENOSHA

2 Mailing Name if Different Than # 1:
Mailing Address if Different Than # 1:
☐ City ☐ Village ☐ Town of:
State: | Zip Code: | County:

3 Name of Contact Person: STEVE KREJCI
Street Address: - SAME -
☐ City ☐ Town ☐ Village of: | State: | Zip Code:
County: | Telephone No. (include area code): 414-694-1515

4 Owner Name if Different Than # 3: RALPH MAURO
Street Address: - SAME -
☐ City ☐ Town ☐ Village of: | State: | Zip Code:
County: | Telephone No. (include area code): 414-694-1515

5 Tank Age (date installed, if known, or years old): ≈1962
6 Tank Capacity (gallons): 1000
7 Tank Manufacturer's Name (if known):

B. TYPE OF USER (check one):

1 ☐ Gas Station
2 ☐ Bulk Storage
3. ☐ Utility
4 ☐ Mercantile
5 ☐ Industrial
6 ☐ Government
7. ☐ School
8. ☐ Residential
9 ☐ Agricultural
10 ☑ Other (specify): AUTO DEALERSHIP

C. TANK CONSTRUCTION:

1 ☑ Bare Steel
2. ☐ Cathodically Protected and Coated Steel (☐ Sacrificial Anodes or ☐ Impressed Current)
3 ☐ Coated Steel
4. ☐ Fiberglass
5 ☐ Other (specify): _____
6 ☐ Relined
7. ☐ Steel - Fiberglass Reinforced Plastic Composite

Is tank UL Approved? ☐ Yes ☐ No
Is Tank Double Walled? ☐ Yes ☐ No

Overfill Protection Provided? ☐ Yes ☐ No If yes, identify type:

D. PIPING CONSTRUCTION

1. ☑ Bare Steel
2. ☐ Cathodically Protected Steel (With Coating? ☐ Yes ☐ No)
3 ☐ Coated Steel
4 ☐ Fiberglass
5 ☐ Other (specify): _____
6 ☐ Unknown

Cathodic Protection By: ☐ Sacrificial Anodes or ☐ Impressed Current
UL Approved? ☐ Yes ☐ No
Double Walled ☐ Yes ☐ No

E. TANK CONTENTS

1. ☐ Diesel
2. ☐ Leaded
3. ☐ Unleaded
4 ☐ Fuel Oil
5. ☐ Gasohol
6 ☑ Other Motor oil
7 ☐ Empty
8 ☐ Sand/Gravel/Slurry
9 ☐ Unknown
10. ☐ Premix
11. ☐ Waste Oil
12 ☐ Propane
13. ☐ Chemical * _____ _____ _____
14. ☐ Kerosene
15. ☐ Aviation

* If # 13 is checked, indicate the chemical name(s) or number(s) of the chemical or waste

If Tank Abandoned, Give Date (mo/day/yr): 4-8-91
Has Clean Closure Status been verified? (see reverse side for details) ☑ Yes ☐ No

If installation of a new tank is being reported, indicate who performed the installation inspection:
1 ☐ Fire Department
2. ☐ DILHR
3 ☐ Other (identify) _____

Signature of Person Completing Report:
Date Signed: 5/9/91

SBD 7437 (R 08.88)

APPLICATION FOR INSTALLATION OF FLAMMABLE LIQUID TANKS

Kenosha Fire
Prevention Bureau
Phone 656-8088

FIRE DEPARTMENT
MUNICIPAL BUILDING
625 - 52ND STREET
KENOSHA, WISCONSIN

Application is hereby made to the Fire Prevention Bureau to; (Check all applicable)

__ Install
__ Abandon in place

__ Replace
__ modify

X Remove
__ Temp. out of service (up to 90 days)

DIRECTIONS
Submit two copies of this form and two copies of the plot plan to the Fire Prevention Bureau for approval. One copy of the plans and a letter of conditional approval will be returned to you after approval.

A final inspection of the site must be performed by the Bureau BEFORE the tank is covered or before product is put in the tank.

Each plan must show (1) property lines, (2) buildings, (3) tanks, (4) load and unload racks OR pump islands, (5) streets and highways, (6) streams and bodies of water within 150 feet of tanks, (7) vehicular routes, (8) distances and (9) wells.

LOCATION WHERE TANK(S) WILL BE INSTALLED

OWNER/OPERATOR	NAME OF ESTABLISHMENT
MAURO CHEVY	MAURO CHEVY

STREET ADDRESS	CITY	COUNTY	STATE	ZIP CODE
8845 SHERIDAN RD	KENOSHA	KENOSHA	WI	53140

TANK SPECIFICATIONS: (Each Tank)

	Horizontal	Vertical	Underground	Above ground	Capacity	Length	Diameter	Contents	New	Used	Gal
1	✓		✓		2000			WASTE OIL			
2	✓		✓		2000			FUEL OIL			
3	✓		✓		2000			MOTOR NEW OIL			
4											

IS PUMP MOTOR EXPLOSION PROOF? ☐YES ☐NO
ARE PUMP SWITCHES EXPLOSION PROOF? ☐YES ☐NO
ARE BONDS AND GROUNDING PROVIDED AT LOAD/UNLOAD RACKS? ☐YES ☐NO

UNDERGROUND TANKS:

DESCRIBE DISTANCE BURIED:	SIZE OF FILL PIPE:	SIZE AND HEIGHT OF VENT: X

IS THE TANK? ☒STEEL ☐FIBERGLASS ☐OTHER (specify). UL Approved: ☐YES

CORROSION PROTECTION (Steel Tanks)

	CAPACITY OF TANK	HOW MANY ANODES?	SIZE OF ANODES	SPECIFY: DIELECTRIC UNION OR ISOLATION BUSHING	NAME OF APPROVED COATING
1				☐DU ☐IB	
2				☐DU ☐IB	
3				☐DU ☐IB	
4				☐DU ☐IB	

CATHODIC PROTECTION OF UNDERGROUND PIPING ☐YES ☐NO
COLLECTION SUMP ON PLOT PLAN ☐YES ☐NO

SEE REVERSE SIDE

APPENDIX D

LABORATORY ANALYSIS - SOIL

CHEM-BIO CORPORATION
140 EAST RYAN ROAD OAK CREEK, WI 53154-4599 (414) 764-7005

ENVIRONMENTAL SERVICES

04/16/91 LABORATORY REPORT

0186 8461961 W21
JG/* / / /

OSI ENVIRONMENTAL
P.O.BOX 68
PLEASANT PRAIRIE ,WI 53158
ATTN: TERRY MCGOVERN

SAMPLE 91100-003907 SOIL/#1N/MOTOR OIL/MAURO CHEVROLET
DATE COLLECTED 04/08/91 DATE RECEIVED 04/10/91

TEST NAME	RESULT	UNITS
TOTAL PETROLEUM HYDROCARBONS	<4.0	PPM

PLEASE CONTACT CLIENT SERVICES WITH ANY QUESTIONS. WATER SAMPLES ARE DISPOSED OF 30 DAYS AFTER RECEIPT ; NON-WATER SAMPLES WILL BE RETURNED 6 WEEKS AFTER RECEIPT. N/T = NOT TESTED, N/A = NOT APPLICABLE,
@ = ELEVATED DETECTION LIMIT DUE TO MATRIX INTERFERENCE. # = ELEVATED DETECTION LIMIT DUE TO SAMPLE CONCENTRATION.
$ = ELEVATED DETECTION LIMIT DUE TO SAMPLE VOLUME. + = ELEVATED DETECTION LIMIT DUE TO EXTRACT VOLUME.
IL EPA CERTIFICATION # 100243; AIHA ACCREDITED. APPROVAL

CHEM-BIO CORPORATION
140 EAST RYAN ROAD OAK CREEK, WI 53154-4599 (414) 764-7005

04/16/91 LABORATORY REPORT

0186 8461961 W21
JG/* / / /

OSI ENVIRONMENTAL
P.O.BOX 68
PLEASANT PRAIRIE ,WI 53158
ATTN: TERRY MCGOVERN

SAMPLE 91100-003908 SOIL/#1S/MOTOR OIL/MAURO CHEVROLET
DATE COLLECTED 04/08/91 DATE RECEIVED 04/10/91

TEST NAME	RESULT	UNITS
TOTAL PETROLEUM HYDROCARBONS	<4.0	PPM

PLEASE CONTACT CLIENT SERVICES WITH ANY QUESTIONS. WATER SAMPLES ARE DISPOSED OF 30 DAYS AFTER RECEIPT ; NON-WATER SAMPLES WILL BE RETURNED 6 WEEKS AFTER RECEIPT. N/T = NOT TESTED, N/A = NOT APPLICABLE,
@ = ELEVATED DETECTION LIMIT DUE TO MATRIX INTERFERENCE. # = ELEVATED DETECTION LIMIT DUE TO SAMPLE CONCENTRATION.
$ = ELEVATED DETECTION LIMIT DUE TO SAMPLE VOLUME. + = ELEVATED DETECTION LIMIT DUE TO EXTRACT VOLUME.
IL EPA CERTIFICATION # 100243; AIHA ACCREDITED. APPROVAL

CHEM-BIO CORPORATION
140 EAST RYAN ROAD OAK CREEK, WI 53154-4599 (414) 764-7005

ENVIRONMENTAL SERVICES

04/16/91 LABORATORY REPORT

0186 8461961 W21
JG/* / / /

OSI ENVIRONMENTAL
P.O.BOX 68
PLEASANT PRAIRIE ,WI 53158
ATTN: TERRY MCGOVERN

SAMPLE 91100-003909 SOIL/#2N/MOTOR OIL/MAURO CHEVROLET
DATE COLLECTED 04/08/91 DATE RECEIVED 04/10/91

TEST NAME	RESULT	UNITS
TOTAL PETROLEUM HYDROCARBONS	<4.0	PPM

PLEASE CONTACT CLIENT SERVICES WITH ANY QUESTIONS. WATER SAMPLES ARE DISPOSED OF 30 DAYS AFTER RECEIPT ; NON-WATER SAMPLES WILL BE RETURNED 6 WEEKS AFTER RECEIPT. N/T = NOT TESTED, N/A = NOT APPLICABLE,
@ = ELEVATED DETECTION LIMIT DUE TO MATRIX INTERFERENCE. # = ELEVATED DETECTION LIMIT DUE TO SAMPLE CONCENTRATION.
$ = ELEVATED DETECTION LIMIT DUE TO SAMPLE VOLUME. + = ELEVATED DETECTION LIMIT DUE TO EXTRACT VOLUME.
IL EPA CERTIFICATION # 100243; AIHA ACCREDITED. APPROVAL

CHEM-BIO CORPORATION
140 EAST RYAN ROAD OAK CREEK, WI 53154-4599 (414) 764-7005

ENVIRONMENTAL SERVICES

04/16/91 LABORATORY REPORT

0186 8461961 W21
JG/* / / /

OSI ENVIRONMENTAL
P.O.BOX 68
PLEASANT PRAIRIE ,WI 53158
ATTN: TERRY MCGOVERN

SAMPLE 91100-003910 SOIL/#2S/MOTOR OIL/MAURO CHEVROLET
DATE COLLECTED 04/08/91 DATE RECEIVED 04/10/91

TEST NAME	RESULT	UNITS
TOTAL PETROLEUM HYDROCARBONS	<4.0	PPM

PLEASE CONTACT CLIENT SERVICES WITH ANY QUESTIONS. WATER SAMPLES ARE DISPOSED OF 30 DAYS AFTER RECEIPT ; NON-WATER SAMPLES WILL BE RETURNED 6 WEEKS AFTER RECEIPT. N/T = NOT TESTED, N/A = NOT APPLICABLE,
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$ = ELEVATED DETECTION LIMIT DUE TO SAMPLE VOLUME. + = ELEVATED DETECTION LIMIT DUE TO EXTRACT VOLUME.
IL EPA CERTIFICATION # 100243; AIHA ACCREDITED. APPROVAL M.T.

CHEM-BIO CORPORATION
140 EAST RYAN ROAD OAK CREEK, WI 53154-4599 (414) 764-7005

ENVIRONMENTAL SERVICES

04/16/91 LABORATORY REPORT

0186 8461961 W21
JG/* / / /

OSI ENVIRONMENTAL
P.O.BOX 68
PLEASANT PRAIRIE ,WI 53158
ATTN: TERRY MCGOVERN

SAMPLE 91100-003911 SOIL/#3N/WASTE OIL/MAURO CHEVROLET
DATE COLLECTED 04/08/91 DATE RECEIVED 04/10/91

TEST NAME	RESULT	UNITS
TOTAL PETROLEUM HYDROCARBONS	<4.0	PPM

PLEASE CONTACT CLIENT SERVICES WITH ANY QUESTIONS. WATER SAMPLES ARE DISPOSED OF 30 DAYS AFTER RECEIPT ; NON-WATER SAMPLES WILL BE RETURNED 6 WEEKS AFTER RECEIPT. N/T = NOT TESTED, N/A = NOT APPLICABLE,
@ = ELEVATED DETECTION LIMIT DUE TO MATRIX INTERFERENCE. # = ELEVATED DETECTION LIMIT DUE TO SAMPLE CONCENTRATION.
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IL EPA CERTIFICATION # 100243; AIHA ACCREDITED. APPROVAL

CHEM-BIO CORPORATION
140 EAST RYAN ROAD OAK CREEK, WI 53154-4599 (414) 764-7005

ENVIRONMENTAL SERVICES

04/16/91 LABORATORY REPORT

0186 8461961 W21
JG/* / / /

OSI ENVIRONMENTAL
P.O.BOX 68
PLEASANT PRAIRIE ,WI 53158
ATTN: TERRY MCGOVERN

SAMPLE 91100-003912 SOIL/#3S/WASTE OIL/MAURO CHEVROLET
DATE COLLECTED 04/08/91 DATE RECEIVED 04/10/91

TEST NAME	RESULT	UNITS
TOTAL PETROLEUM HYDROCARBONS	<4.0	PPM

PLEASE CONTACT CLIENT SERVICES WITH ANY QUESTIONS. WATER SAMPLES ARE DISPOSED OF 30 DAYS AFTER RECEIPT ; NON-WATER SAMPLES WILL BE RETURNED 6 WEEKS AFTER RECEIPT. N/T = NOT TESTED, N/A = NOT APPLICABLE,
@ = ELEVATED DETECTION LIMIT DUE TO MATRIX INTERFERENCE. # = ELEVATED DETECTION LIMIT DUE TO SAMPLE CONCENTRATION.
$ = ELEVATED DETECTION LIMIT DUE TO SAMPLE VOLUME. + = ELEVATED DETECTION LIMIT DUE TO EXTRACT VOLUME.
IL EPA CERTIFICATION # 100243; AIHA ACCREDITED. APPROVAL

APPENDIX E

LABORATORY METHODOLOGIES - TPH SOIL

METHOD SUMMARY

TOTAL PETROLEUM HYDROCARBONS

1. Scope and Application

The analysis is used as an indicator of various types of petroleum-based contamination. It is often used in evaluating the contamination related to Underground Storage Tank (UST) regulations.

2. Procedure

This is an in-house method, based upon SW-846 Method 3810 (Static Headspace Technique) and ASTM Methods D-3415-79 and D-3328-78 (for identification of water-borne oils). This gas chromatography method is based on pattern recognition; comparing both retention time and a given standard pattern to the pattern identified in the sample. Approximately eighteen to twenty-one (18-21) peaks are identified in each standard, and a minimum of 50 percent of the standard's peaks must be present for positive identification. Mixtures are usually identifiable, but quantitation of individual materials within a mixture is typically less accurate.

3. TPH Standards

COMPOUNDS ALREADY IDENTIFIED (Pattern recognition standards have been established and are routinely being run at CBC for these components.)

Unleaded Gasoline*	White Gas™ (Petroleum Naptha)
Diesel*	Kerosene*
Mineral Spirits*	Paint Thinner
Jet Fuel (JP-4)	Stoddard Solvent

*Gasoline, diesel, kerosene and mineral spirits are the most commonly utilized standards.

TPH samples are normally run with a gasoline standard, and if other materials are present, the appropriate standard is added to the run for positive identification and quantification. Positive samples are both qualitated and quantitated in the laboratory report. It is helpful to know the contaminants anticipated to be present in a sample.

A specific, new standard, developed for the special needs of a client, can be set up at an additional charge. If a client has an original sample of the material to be identified (and we already use the material as an in-house standard), it can be run at normal charge in addition to the other samples sent in by the client.

SAMPLE COLLECTION/VOLUME:

WATER: TWO 40 ML VO VIALS
WASTE/SOIL: ONE 4 OUNCE GLASS JAR WITH TEFLON LID

NOTE: The TPH methods will be subject to change pending final legislation by the Wisconsin Department of Natural Resources (DNR). The collection criteria will likely change upon promulgation of the new methods by the Wisconsin DNR.

APPENDIX F

CHAIN-OF-CUSTODY DOCUMENT

CHEM-BIO CORPORATION

ENVIRONMENTAL SERVICES

140 E. RYAN RD.
OAK CREEK, WI 53154
(414) 764-7005
1-800-365-3840

CHAIN OF CUSTODY

No. 40669

PLEASE PRESS FIRMLY WHEN WRITING

CLIENT

PROJECT LOCATION

QUOTE NUMBER

SAMPLER *(Signature)*	AFFILIATION	DATE	TIME

PURPOSE OF ANALYSIS

BCTPH SOIL

ITEM NUMBER	NUMBER AND SIZE OF CONTAINERS	DESCRIPTION	TRANSFER NUMBER 1	2	3	4	5
1	1/4" GLASS JAR	1N MOTOR OIL					
2	1/4" GLASS JAR	1S MOTOR OIL					
3	1/4" GLASS JAR	2N MOTOR OIL					
4	1/4" GLASS JAR	2S MOTOR OIL					
5	1/4" GLASS JAR	3N WASTE OIL					
6	1/4" GLASS JAR	3S WASTE OIL					

TRANSFER NUMBER	ITEM NUMBER	RELINQUISHED BY *(Signature)*	ACCEPTED BY *(Signature)*	DATE	TIME
1	1-6				
2					
3					
4					
5					