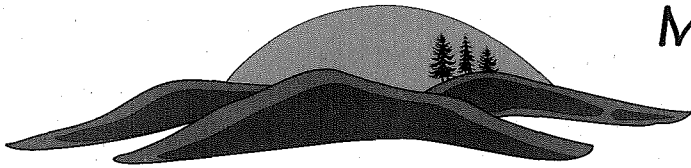


09-60-291960



# Moraine Environmental, Inc.

Environmental Management Services

February 5, 1997

Project Reference #0973

Bureau of Remediation and Redevelopment  
Atten: Ms. Laurie Egre  
P.O. Box 7921  
Madison, Wisconsin 53707

Dear Ms. Egre:

Enclosed please find the report entitled "Closure Assessment of a 600 Gallon Gasoline Underground Storage Tank". The above underground storage tank was removed from the One Stop Shop located at 510 East Rhine Street, Elkhart Lake, Wisconsin.

Based on Field observations and analytical results, Moraine Environmental, Inc. is requesting that the Wisconsin Department of Natural Resources grant clean closure for removed 600 gallon UST.

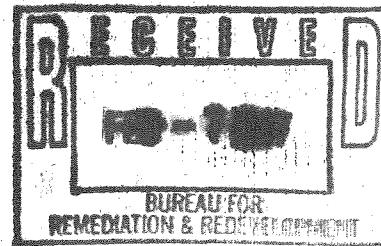
Should you have questions regarding this report or the project in general, please contact me.

Sincerely,

MORaine ENVIRONMENTAL, INC.

*A. Bucher*

Amy Bucher  
Environmental Scientist



Enc.

E:\WPWIN\ME\TECH\9\0973RPT.LTR

CLOSURE ASSESSMENT OF A  
600 GALLON GASOLINE  
UNDERGROUND STORAGE TANK  
AT  
***ONE STOP SHOP***

DENNIS KAWCZYNSKI SITE  
510 EAST RHINE STREET  
ELKHART LAKE, WISCONSIN

PREPARED FOR:  
**MR. DENNIS KAWCZYNSKI**  
510 EAST RHINE STREET  
ELKHART LAKE, WISCONSIN 53020

PREPARED BY:  
MORAINE ENVIRONMENTAL, INC  
1234 12TH AVENUE  
GRAFTON, WISCONSIN 53024  
(414) 377-9060

PROJECT REFERENCE #0973

JANUARY 6, 1997



Amy Bucher  
Environmental Scientist



Thomas C. Sweet  
President

## EXECUTIVE SUMMARY

Mr. Dennis Kawczynski retained Moraine Environmental, Inc. to perform an Underground Storage Tank (UST) Closure Assessment following the removal of a 600 gallon gasoline UST at the One Stop Shop located at 510 Rhine Street, Elkhart Lake, Wisconsin.

The closure included the removal of one 600 gallon coated steel gasoline UST, the gasoline dispenser and associated piping. The UST was located at the northeast corner of the building. TNT Services of Franksville, Wisconsin, was subcontracted by Interstate Pump and Tank of Waukesha, Wisconsin, to perform the tank removal. The tank was oriented in an east/west direction and the tank excavation was approximately 9 x 13 feet in size. MEI did not observe soil staining or petroleum odors in native soils within the tank excavation. Following removal, the tank was inspected and was noted to be in excellent condition. The UST was cleaned and less than five gallons of sludge was containerized following cleaning. The sludge was disposed of by the tank contractor and used as fuel for a waste oil burner.

Soil samples were collected from beneath regulated UST. A soil sample was also collected from beneath the gasoline dispenser. No piping sample was collected as soils surrounding the supply line (a majority of which was located above the UST) collapsed into the excavation. The purpose of this closure assessment is to comply with Wisconsin Department of Natural Resources (WDNR) guidelines established in July, 1993.

Soils identified within the excavation consisted of red/brown sand and gravel throughout the excavation. Groundwater was not encountered in the excavation.

Soil samples collected from beneath the gasoline UST system were submitted for laboratory analysis of Gasoline Range Organics (GRO). Petroleum impacts to soil were not present in the samples collected.

Based on field observations and the results of independent laboratory analysis, native soils at the subject site have not been impacted by a petroleum release from the 600 gallon gasoline UST. Therefore, on behalf of Dennis Kawczynski property owner, clean site closure is requested from the Wisconsin Department of Commerce.

## LIMITS OF INVESTIGATION

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

Subsurface sampling 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).

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### APPENDICES

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- B. Checklist For Underground Tank Closure and  
Underground Petroleum Product Tank Inventory Form
- C. Soil Sampling Protocol
- D. Laboratory Results
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## **1.0 INTRODUCTION**

Mr. Dennis Kawczynski retained Moraine Environmental, Inc. (MEI) to conduct an Underground Storage Tank Closure Assessment at the One Stop Shop located at 510 East Rhine Street, Elkhart Lake, Wisconsin. The purpose of this report is to identify the personnel involved with the project and to detail the appropriate site information, field observations, procedures, and laboratory analysis required by the Wisconsin Department of Natural Resources (WDNR). The report also presents our recommendations for clean closure of the site.

## **2.0 PURPOSE AND SCOPE OF WORK**

### **2.1 General Purpose of Work**

The purpose of the UST removal and closure assessment was to remove the source for potential petroleum hydrocarbon impacts to soil and groundwater at the site and to assess soil quality within the UST excavation to determine if petroleum impacts have been caused by a release from the UST system. Prior to commencing field activities, Mr. Roman Nespondzany of Independent Inspections was notified of the scheduled UST system removal and a permit for the removal was obtained by the contractor.

### **2.2 Scope of Work**

The following tasks were performed pertinent to the excavation and removal of one 600 gallon gasoline UST.

- ▶ The 600 gallon gasoline UST was cleaned, removed, dismantled, and properly disposed.
- ▶ The excavation geology, tank system integrity, and location of underground utilities which could serve as potential contaminant migration pathways were noted in the field and recorded.



- ▶ The excavation was inspected for indications of soil staining, odors or other evidence of petroleum hydrocarbon impacts.
- ▶ Soil samples from the base of the gasoline tank and the UST dispenser were collected for Gasoline Range Organics (GRO) analysis.
- ▶ Preparation of this report, which is a documentation of field observations, procedures, analytical results and recommendations for the site was prepared.

### **2.3 Contractor/Personnel Performing Work**

The following personnel were involved in the UST closure assessments. Addresses, phone numbers and certification numbers are included as Appendix A.

Environmental Consulting Firm:  
Moraine Environmental, Inc.

Laboratory Services:  
En Chem, Inc.

Excavation Contractor:  
TNT Services Inc., subcontracted by Interstate Pump and Tank

Tank Cleaning Contractor:  
TNT Services Inc., subcontracted by Interstate Pump and Tank

Tank Disposal Company:  
Kohne Salvage Company, Inc.

## **3.0 SITE DESCRIPTION AND BACKGROUND**

### **3.1 Site Description**

The site is located in the NW ¼ of the NE ¼ of Section 29 Township 26 North, Range 21 East, Sheboygan County, Wisconsin. Specifically, the site is at 510 East Rhine Street, Elkhart Lake, Wisconsin. The site contains a multi-tenant commercial building with tenants consisting of a laundromat, restaurant and convenience store affiliated with the gas station.

In addition to the 600 gallon removed gasoline tank, three larger operational USTs are present on site. The three additional tanks include one 6,000 gallon, one 8,000 gallon and one 10,000 gallon UST, all of which contain gasoline. The regional location of the site and specific physical site characteristics are presented on Figures 1 and 2. The UST was located along the north side of the building and was buried beneath an asphalt surface. The site is served by municipal water and sewer.

#### **4.0 FIELD OBSERVATIONS**

##### **4.1 Physical Site Characteristics**

The locations of underground utilities, specific site description, UST description, groundwater usage and adjacent property information are presented in Tables 1 and 2.

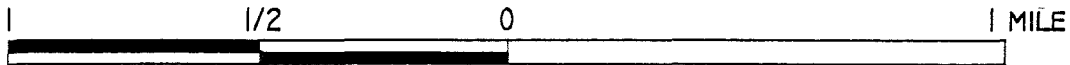
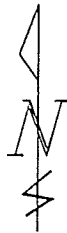
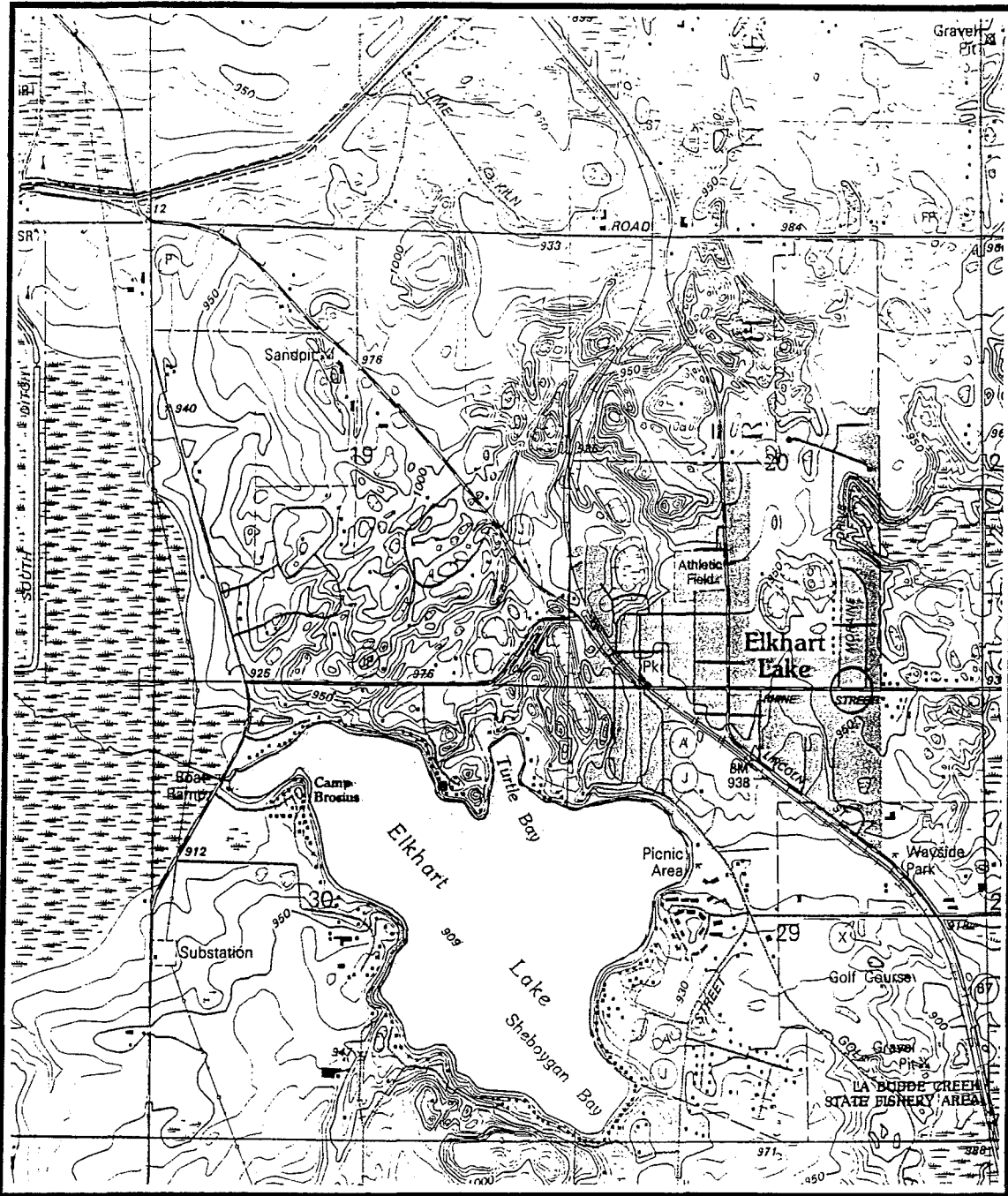
##### **4.2 General Conditions and Observations**

Weather conditions, site conditions, UST system and excavation dimensions, potential impact migration pathways, soil and backfill classifications and the presence of any groundwater, excavation water or perched water are addressed in Table 2.

#### **5.0 UST REMOVAL CHARACTERISTICS AND CONDITIONS**

##### **5.1 Specific Activities and UST Information**

Specific activities and information regarding the actual UST removal process, including surplus product management, UST removal, cleaning and disposal, sludge management and UST component inspection are also presented in Table 2. Copies of the Checklist For Underground Tank Closure and the Underground Petroleum Product Inventory Form is presented as Appendix B.



ADAPTED FROM USGS 7.5 ELKHART LAKE QUADRANGLE

<b>SITE LOCATION MAP</b>	
ONE STOP SHOP SITE 510 EAST RHINE STREET ELKHART LAKE, WISCONSIN	
MEI #0973	FIGURE I

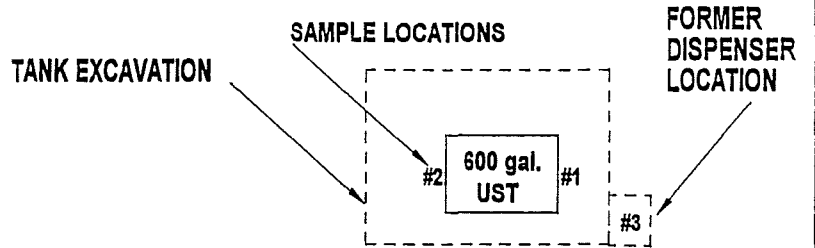
○ SITE LOCATION

RHINE STREET



DISPENSER ISLANDS FOR  
6,000 GALLON, 8,000 GALLON  
AND 10,000 GALLON TANKS

ASPHALT



SIDEWALK

ONE STOP SHOP  
CONVENIENCE STORE



# Site Plan Map

One Stop Shop  
510 East Rhine Street  
Elkhart Lake, Wisconsin

12-26-96

1" = 10'

Figure 2

**TABLE 1  
SITE DESCRIPTION AND UST CHARACTERISTICS  
ONE STOP SHOP - 510 EAST RHINE STREET, ELKHART LAKE, WISCONSIN**

Purpose:		<b>Removal of one 600 gallon gasoline UST (12/2/96) to be replaced by a 2,000 gallon fiberglass gasoline UST</b>					
Site Address:		<b>510 East Rhine Street, Elkhart Lake, Wisconsin</b>					
Site Description, Site Operations, Drainage:		<b>Gas station and convenience store, removed tank located along north wall of building, surficial drainage in tank location mainly flat, with site drainage toward the south.</b>					
Historical Use:		<b>Gasoline storage and dispensing.</b>					
Previous Assessments/Investigations:		<b>No</b>					
Tank Tightness Testing:		<b>Yes</b>					
Utilities/Locations:		Electric	Gas	Water	Telephone	Sewer	Other
		underground	underground	municipal	underground	municipal	none
UST Specifics of Subject Tank	# of Tanks	Size	Contents	Tank Age			
<b>Gasoline Tank (steel)</b>	<b>1</b>	<b>600</b>	<b>gasoline</b>	<b>approx. 7 years</b>			
Private Wells on Site:		<b>None observed</b>					
Depth to Groundwater:		<b>Unknown</b>					
Potable Water Supply:		<b>Municipal</b>					
General Comments:							

**TABLE 2**  
**UST REMOVAL CHARACTERISTICS AND FIELD OBSERVATIONS**  
**ONE STOP SHOP - 510 EAST RHINE STREET, ELKHART LAKE, WISCONSIN**

<b>Work Day Weather Conditions:</b>	December 2, 1996 - 25 , sunny							
<b>Site Conditions:</b>	UST buried beneath asphalt along north side of building							
<b>Surplus Product Disposal:</b>	Less than five gallons of sludge produced while cleaning of the UST. Utilized by UST contractor for burning in waste oil burner.							
<b>UST Removal, Cleaning, Disposal:</b>	<b>Surrounding Backfill Material</b>	<b>Tank Orientation</b>	<b>Tank Condition</b>	<b>Piping Condition</b>	<b>Piping Distance From Tank to Dispenser or Building</b>	<b>Tank Cleaning Performed By</b>	<b>Tank Transportation and Disposal</b>	
<b>Tank - 600 gallon, steel</b>	sand	east/west	excellent	good	4'	TNT Services, Inc.	TNT Services, Inc.	Tank disposed of at Kohne Salvage Co., Muskego, Wisconsin
<b>Rinsate/Sludge Management:</b>	Less than five gallons of sludge utilized by contractor in waste oil burner.							
<b>UST Excavation Dimensions:</b>	GASOLINE UST EXCAVATION 9' X 13'							
<b>Tank Dimensions:</b>	WASTE OIL TANK 4' X 6'		GASOLINE TANK 6' X 10'					
<b>Migration Pathways:</b>	none in immediate vicinity of the UST excavation							
<b>USCS Soil Classification:</b>	sands and gravels							
<b>Replacement Backfill:</b>	New 2,000 gallon fiberglass UST installed in same excavation, MEI not present on site during new tank installation							
<b>Subsurface Water Conditions:</b>	no ground water encountered							
<b>General Comments:</b> No signs of soil contamination were noted to exist in native soils surrounding the 600 gallon gasoline UST.								

**6.0 SOIL SAMPLING PROTOCOL**

**6.1 Sampling Equipment and Decontamination**

Soil sampling protocol is presented as Appendix C.

**6.2 Soil Sample Locations and Sample Handling Techniques**

Specific to the One Stop Shop site, two soil samples were collected in native soil approximately 12 inches beneath each end of the gasoline UST (at approximately 10' below ground surface) and beneath the associated dispenser (at approximately 3' bgs). Soil samples were analyzed for Gasoline Range Organics (GRO). A soil sample was not collected from piping run from the gasoline UST to the dispenser as the piping was immediately above the UST.

**7.0 LABORATORY ANALYSIS/WISCONSIN REGULATIONS**

**7.1 Soil Sample Analysis and Results**

The soil samples and Chain-of-Custody form were submitted to En Chem, Inc. for analysis of GRO in accordance with WDNR guidelines. Laboratory results are summarized in Table 3.

<b>TABLE 3 LABORATORY AND FIELD SCREENING RESULTS ONE STOP SHOP - 510 EAST RHINE STREET, ELKHART LAKE, WI</b>					
<b>Sample Location</b>	<b>Sample Depth (feet below grade)</b>	<b>Date Collected</b>	<b>Sample Odor</b>	<b>Lab Results mg/kg</b>	<b>Analysis Performed</b>
#1 Gasoline East Base	10'	12/02/96	none	ND	GRO
#2 Gasoline West Base	10'	12/02/96	none	ND	GRO
#3 Gasoline Dispenser	3'	12/02/96	none	ND	GRO

**Key:**  
mg/kg = milligrams/kilogram  
GRO = Gasoline Range Organics  
ppm = parts per million  
ND = No Detection

As referenced in Table 3, GRO was not detected in soil samples collected during the closure assessment and therefore concentrations are below the NR 720 analytical standard required for site remediation. Laboratory results are included as Appendix D.

## **7.2 Wisconsin Soil Quality Regulations**

The Wisconsin Department of Natural Resources (WDNR) or the Department of Commerce (depending on site priority by ranking) reviews each case individually to determine if additional investigation or some type of remediation is necessary. The WDNR is enforcing an interim soil cleanup standard of 250 ppm action level for GRO in clayey soil, in accordance with NR 720.

## **8.0 PROJECT SUMMARY**

The following project summary is based on observations and data collected during the underground storage tank (UST) closure assessment performed on December 2, 1996, at the One Stop Shop located at 510 East Rhine Street, Elkhart Lake, Wisconsin. The purpose of the closure assessment was to determine if a release had occurred to native soil from the 600 gallon gasoline UST system.

The closure included the removal of one 600 gallon gasoline UST, the associated piping and dispenser by TNT Services, Inc. The UST was used to store high octane gasoline. The assessment also included collecting soil samples, observing and documenting field activities, and documenting the transportation and disposal of the UST system and contents.

Soil samples were collected from beneath the gasoline UST and submitted for laboratory analysis of Gasoline Range Organics (GRO). Based on laboratory results GRO was not detected in the soil samples collected during the closure assessment and therefore concentrations were below the NR720 analytical trigger of 250 parts per million for a site remediation.

## **9.0 RECOMMENDATIONS**

Based on field observations and laboratory analytical results petroleum impacts to soil resulting from releases from the gasoline UST have not occurred. Because GRO concentrations were below the NR720 analytical trigger for site remediation, clean closure for the One Stop Shop site is requested from the Wisconsin Department of Commerce.



**APPENDIX A**

**SITE UST PERSONNEL**

## SITE UST PERSONNEL

### ENVIRONMENTAL CONSULTING FIRM

Moraine Environmental, Inc.  
1234 12th Avenue  
Grafton, Wisconsin 53024-1924  
Phone: (414) 377-9060

### LABORATORY SERVICES

En Chem, Inc.  
1795 Industrial Drive  
Green Bay, Wisconsin 543022  
Phone: 1-800-736-2436

### EXCAVATING CONTRACTOR

Interstate Pump & Tank, Inc.  
901 Niagra  
Waukesha, Wisconsin 53186  
Phone: (414) 524-8494  
subcontracted to:  
TNT Services, Inc.  
6010 Raynor Avenue  
Franksville, Wisconsin 53126  
Phone: (414) 835-2364

### TANK CLEANING CONTRACTOR

Interstate Pump & Tank, Inc.  
subcontracted to:  
TNT Services, Inc.

### TANK DISPOSAL CONTRACTOR

Kohne Salvage Company, Inc.  
W200 S7203 Williams Drive  
Muskego, Wisconsin

**APPENDIX B**

**CHECKLIST FOR UNDERGROUND TANK CLOSURE  
AND UNDERGROUND PETROLEUM PRODUCT  
TANK INVENTORY FORM**

**Complete one form for each site closure.**

**TANK CLOSURE**

The information you provide may be used by other government agency programs (Privacy Law, s. 15.04 (1) (m)).

Safety & Buildings Division  
Fire Prevention & Underground Storage Tank Section  
P. O. Box 7969, Madison, WI 53707

A. IDENTIFICATION: (Please Print) Indicate whether closure is for:  Tank System  Tank Only  Piping Only

1. Site Name <u>One Stop Shop</u>		2. Owner Name <u>DENNIS J. KAWCZYNSKI PRESIDENT</u>	
Site Street Address (not P.O. Box) <u>510 E Rhine</u>		Owner Street Address <u>510 E. RHINE ST</u>	
<input checked="" type="checkbox"/> City	<input type="checkbox"/> Village	<input type="checkbox"/> Town of:	<input type="checkbox"/> City <input checked="" type="checkbox"/> Village <input type="checkbox"/> Town of:
<u>E LKHART</u>			State: <u>WI</u> Zip Code: <u>53020</u>
State: <u>W.S</u>	Zip Code: <u>53020</u>	County: <u>SHEBOYGAN</u>	Telephone No. (include area code): <u>(414) 876-2311</u>
3. Closure Company Name (Print) <u>TNT Services Inc</u>		Closure Company Street Address, <u>6010 Raymond Ave</u>	
Closure Company Telephone No. (include area code) <u>(414) 835-2364</u>		Closure Company City, State, Zip Code <u>Franksville Wis 53126</u>	
4. Name of Company Performing Closure Assessment <u>MORAIN ENVIRONMENTAL INC.</u>		Assessment Company Street Address, City, State, Zip Code <u>1234 12TH AVE. GRAFTON, WI 53024</u>	
Telephone # (include area code) <u>(414) 377-9000</u>	Certified Assessor Name (Print) <u>AMY BUCHER</u>	Assessor Signature <u>A. BUCHER</u>	Assessor Certification No. <u>00562</u>

Tank ID #	Closure	Temp. Closure	Closure In Place	Tank Capacity	Contents *	Closure Assessment
1. <u>590900162</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>1000000</u>	<u>02</u>	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
2.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/> Y <input type="checkbox"/> N
3.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/> Y <input type="checkbox"/> N
4.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/> Y <input type="checkbox"/> N
5.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/> Y <input type="checkbox"/> N
6.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/> Y <input type="checkbox"/> N

\* Indicate which product by numeric code: 01-Diesel; 02-Leaded; 03-Unleaded; 04-Fuel Oil; 05-Gasohol; 06-Other; 09-Unknown; 10-Premix; 11-Waste oil; 13-Chemical (indicate the chemical name(s) or numbers(s)); 14-Kerosene; 15-Aviation.

Written notification was provided to the local agent 15 days in advance of closure date.  Y  N  NA  
All local permits were obtained before beginning closure.  Y  N  NA

Check applicable box at right in response to all statements in Sections B - E. Remove Inspector NA  
Verified Verified

**B. TEMPORARILY OUT OF SERVICE**

Written inspector approval of temporary closure obtained, which is effective until (provide date) \_\_\_\_\_  Y  N  NA

1. Product Removed  Y  N  NA

a. Product lines drained into tank (or other container) and resulting liquid removed, AND  Y  N  NA

b. All product removed to bottom of suction line, OR  Y  N  NA

c. All product removed to within 1" of bottom.  Y  N  NA

2. Fill pipe, gauge pipe, tank truck vapor recovery fittings, and vapor return lines capped.  Y  N  NA

3. All product lines at the islands or pumps located elsewhere are removed and capped, OR  Y  N  NA

4. Dispensers/pumps left in place but locked and power disconnected.  Y  N  NA

5. Vent lines left open.  Y  N  NA

6. Inventory form filed indicating temporary closure.  Y  N  NA

**C. CLOSURE BY REMOVAL**

1. Product from piping drained into tank (or other container).  Y  N  NA

2. Piping disconnected from tank and removed.  Y  N  NA

3. All liquid and residue removed from tank using explosion proof pumps or hand pumps.  Y  N  NA

4. All pump motors and suction hoses bonded to tank or otherwise grounded.  Y  N  NA

5. Fill pipes, gauge pipes, vapor recovery connections, submersible pumps and other fixtures removed.  Y  N  NA

**NOTE: DROP TUBE SHOULD NOT BE REMOVED IF THE TANK IS TO BE PURGED THROUGH THE USE OF AN EDUCTOR.**

6. Vent lines left connected until tanks purged.  Y  N  NA

7. Tank openings temporarily plugged so vapors exit through vent.  Y  N  NA

8. Tank atmosphere reduced to 10% of the lower flammable range (LEL) - see Section F.  Y  N  NA

9. Tank removed from excavation after PURGING/INERTING; placed on level ground and blocked to prevent movement.  Y  N  NA

10. Tank cleaned before being removed from site.  Y  N  NA

**C. CLOSURE BY REMOVAL (continued)**

	Remover Verified	Inspector Verified	NA
11. Tank labeled in 2" high letters after removal but before being moved from site. ....	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/>	<input type="checkbox"/>
12. Tank vent hole (1/8 th " in uppermost part of tank) installed prior to moving the tank from site. ....	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/>	<input type="checkbox"/>
13. Inventory form filed by owner with Safety and Buildings Division indicating closure by removal. ....	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/>	<input type="checkbox"/>
14. Site security is provided while the excavation is open. ....	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**NOTE: COMPLETE TANK LABELING SHOULD INCLUDE WARNING AGAINST REUSE; FORMER CONTENTS; VAPOR STATE; VAPOR FREEING TREATMENT; DATE.**

**D. CLOSURE IN PLACE**

**NOTE: CLOSURES IN PLACE ARE ONLY ALLOWED WITH THE PRIOR WRITTEN APPROVAL OF THE DEPARTMENT OF INDUSTRY, LABOR AND HUMAN RELATIONS OR LOCAL AGENT.**

1. Product from piping drained into tank (or other container).	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
2. Piping disconnected from tank and removed. ....	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
3. All liquid and residue removed from tank using explosion proof pumps or hand pumps. ....	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
4. All pump motors and suction hoses bonded to tank or otherwise grounded. ....	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
5. Fill pipes, gauge pipes, vapor recovery connections, submersible pumps and other fixtures removed.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
6. Vent lines left connected until tanks purged. ....	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
7. Tank openings temporarily plugged so vapors exit through vent. ....	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
8. Tank atmosphere reduced to 10% of the lower flammable range (LEL) - see Section F. ....	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
9. Tank properly cleaned to remove all sludge and residue. ....	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
10. Solid inert material (sand, cyclone boiler slag, pea gravel recommended) introduced and tank filled.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
11. Vent line disconnected or removed. ....	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
12. Inventory form filed by owner with Safety and Buildings Division indicating closure in place. ....	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>

**NOTE: DROP TUBE SHOULD NOT BE REMOVED IF THE TANK IS TO BE PURGED THROUGH THE USE OF AN EDUCTOR - EDUCTOR OUTPUT 12 FT ABOVE GRADE.**

**E. CLOSURE ASSESSMENTS**

**NOTE: DETERMINE IF A CLOSURE ASSESSMENT IS REQUIRED BY REFERRING TO ILHR 10.**

1. Individual conducting the assessment has a closure assessment plan (written) which is used as the basis for their work on the site. ....	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Do points of obvious contamination exist? ....	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Are there strong odors in the soils? ....	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. Was a field screening instrument used to pre-screen soil sample locations? ....	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Was a closure assessment omitted because of obvious contamination? ....	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. Was the DNR notified of suspected or obvious contamination? ....	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Agency, office and person contacted: \_\_\_\_\_

7. Contamination suspected because of:  Odor  Soil Staining  Free Product  Sheen On Groundwater  Field Instrument Test

**F. METHOD OF ACHIEVING 10% LEVEL DESCRIPTION**

Educator Or Diffused Air Blower

Eductor driven by compressed air, bonded and drop tube left in place; vapors discharged minimum of 12 feet above ground.

Diffused air blower bonded and drop tube removed. Air pressure not exceeding 5 psig.

Dry Ice

Dry ice introduced at 1.5 pounds per 100 gallons of tank capacity. Dry ice crushed and distributed over the greatest possible tank area. Dry ice evaporated before proceeding.

Inert Gas (CO/2 or N/2) **NOTE: INERT GASSES PRODUCE AN OXYGEN DEFICIENT ATMOSPHERE. THE TANK MAY NOT BE ENTERED IN THIS STATE WITHOUT SPECIAL EQUIPMENT**

Gas introduced through a single opening at a point near the bottom of the tank at the end of the tank opposite the vent.

Gas introduced under low pressure not to exceed 5 psig to reduce static electricity. Gas introducing device grounded.

Tank atmosphere monitored for flammable or combustible vapor levels.

Calibrate combustible gas indicator. Drop tube removed prior to checking atmosphere. Tank space monitored at bottom, middle and upper portion of tank. Readings of 10% or less of the lower flammable range (LEL) obtained before removing tank from ground.

**G. NOTE SPECIFIC PROBLEMS OR NONCOMPLIANCE ISSUES BELOW**

**H. REMOVER/CLEANER INFORMATION**

Larry A. Warickak  
Remover Name (print)

[Signature]  
Remover Signature

02602 12-2-96  
Remover Certification No. Date Signed

**I. INSPECTOR INFORMATION**

Ronald N. Ruppert  
Inspector Name (print)  
5909 BELKINANT LAKE

[Signature]  
Inspector Signature  
200-422-220

00487  
Inspector Certification No.  
12/2/01

# UNDERGROUND PETROLEUM PRODUCT TANK INVENTORY

Send Completed Form To:  
Storage Tank, Permitting and  
Registration Section  
P.O. Box 7969, Madison, WI 53707

WI Tank ID#: 59090-0162

Information Required By Section 101.142, Wis. Stats.

Underground tanks in Wisconsin that have stored or currently store petroleum or regulated substances must be registered. 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 (including piping) located below ground level. A separate form is needed for each tank. Send each completed form to the address designated in the top right corner. Have you previously registered this tank by submitting a form?  Yes  No (Yes, are you providing updating information only?  Yes  No)  
Personal information you provide may be used for secondary purposes. [Privacy Law, s. 15.04 (1)(m)]

1.  In Use or  Closed - Tank Removed 8.  Ownership Change (Indicate new owner name in block 2)  City  Village  
 1A.  In Use or  Closed - Tank Removed 8.  Ownership Change (Indicate new owner name in block 2)  City  Village  
 1B.  Newly Installed 6.  Closed - Filled with Inert Materials 7.  Out of Service - Provide Date:  Town of \_\_\_\_\_  
 2.  Abandoned with Product 7.  Out of Service - Provide Date: \_\_\_\_\_  
 3.  Abandoned No Product (empty) or with Water

**A. IDENTIFICATION (Please Print)**

1. Tank Site Name: One STOP SHOP Site Address: 510 E Rhine ST Site Telephone Number: (414) 876-2311  
 City  Village  Town of: \_\_\_\_\_ State: WIS Zip Code: 53020 County: Sheboygan  
 2. Tank Owner Name: Sam Mailing Address: \_\_\_\_\_ Telephone Number: \_\_\_\_\_  
 City  Village  Town of: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_ County: \_\_\_\_\_  
 3. Previous Name: \_\_\_\_\_ Previous site address if different than #1: \_\_\_\_\_  
 4. Tank Age (date installed, if known or years old): \_\_\_\_\_ 5. Tank Capacity (gallons): 1000 GPD 6. If more than one tank is located at facility, please provide tank # \_\_\_\_\_

**B. TYPE USER (check one)**

1.  Retail Sales 2.  Bulk Storage 3.  Utility 4.  Mercantile/Commercial 5.  Industrial  
 6.  Government 7.  School 8.  Residential 9.  Agricultural 10.  Other (specify): \_\_\_\_\_  
 11.  Tribal Nation 12.  Federal Property 13.  Backup Generator

**C. TANK CONSTRUCTION (check one)**

1.  Bare Steel 2.  Cathodically Protected & Coated Steel (Check one: A.  Sacrificial Anodes or B.  Impressed Current)  
 3.  Coated Steel 4.  Fiberglass 5.  Other (specify): \_\_\_\_\_  
 6.  Lined - Date: \_\_\_\_\_ 7.  Steel - Fiberglass Reinforced Plastic Composite 9.  Unknown

Approval: 1.  Nat'l Std. 2.  UL 3.  Other: \_\_\_\_\_ Is tank double walled?  Yes  No  
 Overfill Protection Provided?  Yes  No If yes, identify type: \_\_\_\_\_ Spill Containment?  Yes  No  
 Tank leak detection method: 1.  Automatic tank gauging 2.  Vapor monitoring 3.  Groundwater monitoring  
 4.  Inventory control and tightness testing 5.  Interstitial monitoring  
 7.  Manual tank gauging (only for tanks of 1,000 gallons or less) 8.  Statistical Inventory Reconciliation (SIR)

**D. PIPE CONSTRUCTION**

1.  Bare Steel 2.  Cathodically Protected & Coated Steel (Check one: A.  Sacrificial Anodes or B.  Impressed Current)  
 3.  Coated Steel 4.  Fiberglass 5.  Other (Specify): \_\_\_\_\_ 9.  Unknown

Vapor Recovery/Stage II  CARB #: \_\_\_\_\_  
 4.  Fiberglass 6.  Flexible 5.  Other (specify): \_\_\_\_\_  Operational - Provide Date (mo/day/yr): \_\_\_\_\_  
 Piping System Type: 1.  Pressurized piping with A.  auto shutoff; B.  alarm or C.  flow restrictor  
 2.  Suction piping with check valve at tank 3.  Suction piping with check valve at pump and inspectable 4.  Not needed if waste oil  
 Piping leak detection method: used if pressurized or check valve at tank: 1.  Vapor monitoring 2.  Interstitial monitoring  
 3.  Groundwater monitoring 4.  Tightness testing 5.  Line leak detector 6.  Not required 8.  SIR  
 Approval: 1.  Nat'l Std. 2.  UL 3.  Other: \_\_\_\_\_ Is pipe double walled?  Yes  No

**E. TANK CONTENTS**

1.  Diesel 2.  Leaded 3.  Unleaded 4.  Fuel Oil 5.  Gasohol  
 6.  Other (Specify): \_\_\_\_\_ 7.  Empty\* 8.  Sand/Gravel/Slurry\* 9.  Unknown\* 10.  Premix  
 11.  Waste/Used Motor Oil 13.  Chemical \_\_\_\_\_ 14.  Kerosene 15.  Aviation  
 (Indicate chemical name and number)

\* If 7, 8, or 9 is chosen, this tank is NOT PECFA eligible.  
 If Tank Closed, Abandoned or Out of Service, give date (mo/day/yr): 12-2-96 Has a site assessment been completed (see reverse side for details)  Yes  No

Owner or Operator Name (please print): DENNIS J KAWCZYNSKI Indicate whether:  Owner or  Operator  
 Owner or Operator Signature: [Signature] Date Signed: 12/2/96

IMPORTANT: Failure to provide sufficient information may cause you to fail under applicable regulations and may affect your PECFA eligibility determination. It is necessary to complete all shaded areas and to provide other data as possible.

**APPENDIX C**

**SOIL SAMPLING PROTOCOL**

## SOIL SAMPLING PROTOCOL

### Sampling Equipment and Decontamination

The soil samples collected from the excavation base were collected with the hand trowels from the backhoe bucket for safety considerations, since the excavation was deeper than 6 feet below ground surface. Prior to use, the trowels were washed in a solution of trisodium phosphate, tap water rinsed, isopropyl alcohol wash, tap water rinsed and sealed in aluminum foil.

### Soil Sample Locations and Sample Handling Techniques

The WDNR "Site Assessments for Underground Storage Tanks Technical Guidance" (PUBL-SW-175-93) specifies that soil samples must be collected from the following areas when conducting an Underground Storage Tank Closure Assessment.

- ▶ In native soil, two samples, one to three feet below each end of each tank greater than or equal to five feet long. An additional sample must be collected in native soil, one to three feet beneath the middle of tanks over eighteen feet long.
- ▶ In native soil, one sample only, one to three feet beneath the middle of each tank less than five feet long.
- ▶ In native soil, one sample, one to three feet below each dispenser on the supply side.
- ▶ In native soil, one sample, one to three feet below every twenty feet of piping, preferable at elbows or swing joints. If part of the piping runs above the tank(s) do not collect separate piping samples under those sections.
- ▶ In native soil, one sample, five feet below remote fill pipe openings.

Two (2) samples (one sample for analysis and one sample for field screening) were collected and immediately containerized from each UST sampling location. GRO samples were weighed to the nearest 25 grams, containerized in 60 ml glass jars, preserved with methanol (within 2 hours of collection) and sealed with teflon-lined screw-on caps containing refton septums. Each sample was properly labeled and placed in a cooler packed with ice for transport to a certified WDNR laboratory for analysis. The field screening samples were containerized



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.

### Field Screening

A Thermo-Environmental Model 480B, Photo Ionization Detector (PID), was used to screen each soil sample for the presence of Volatile Organic Compounds by means of headspace analysis. The PID calibrated in the field for direct response to 250 parts per million isobutylene standard. Headspace samples were allowed to equilibrate prior to analysis. Minimum equilibration times conformed to the specifications as follows:

Ambient Outside Air Temperature at Time of Sample Collection	Minimum Time Sample Equilibrated at 70° F or Greater Temperature
<40° F	40 Minutes
41 - 55° F	20 Minutes
56 - 69° F	10 Minutes
>70° F	5 Minutes

Headspace samples were equilibrated out of direct sunlight and warmed by placing in a building or heated vehicle if ambient temperatures were below 55° F. Following equilibration, "dynamic" headspace analysis was conducted. This method involved agitating the sample container for 30 seconds to facilitate volatilization of any organic compounds into the headspace. The tip of the PID probe was inserted half-way between the cap and the sample surface. The highest instrument response observed within the first 5 to 10 seconds was recorded as Total Organic Volatiles (TOV) as "instrument units".

**APPENDIX D**  
**LABORATORY RESULTS**



✓ 180

Note: Use of this form is voluntary but is requested by the Department pursuant to ch. NR 149, NR 500-540, NR 158 and NR 419, Wis. Adm. Code. Personally identifiable information will be used for no other purpose.

Sample Collector(s) <u>AMY BUKNER</u>	Title/Work Station/Company <u>ENV SCIENTIST/HDRRAINE ENV INC.</u>	Telephone Number (include area code) <u>414-377-9060</u>
Property Owner <u>DENNIS KAWCZYNSKI</u>	Property Address <u>ONE STOP SHOP, 510 E. RHINE ST., EKHART LAKE WI</u>	Telephone Number (include area code)

I hereby certify that I received, properly handled and disposed of these samples as noted below:

Relinquished By (Signature) <u>A. Bukner</u>	Date/Time <u>12/3/96 7:50 AM</u>	Received By (Signature) <u>[Signature]</u>	
Relinquished By (Signature) <u>[Signature]</u>	Date/Time <u>12/4/96 12:00</u>	Received By (Signature) <u>[Signature]</u>	
Relinquished By (Signature) <u>[Signature]</u>	Date/Time <u>12/4/96 1620</u>	Received for EN-CHEM By (Signature) <u>[Signature]</u>	

LABORATORY USE ONLY

Temperature of temperature blank 50.7

If samples were received on ice and there was ice remaining, you may report the temperature as 'received on ice'. If all of the ice was melted, the temperature of the melt may be substituted for a temperature blank.

Field ID Number	Date Collected	Time Collected	Sample Type / Device	Preserv. Type	Field Screening	Location/Description (see footnote 2)	Analysis Type	Lab ID Number	Sample Condition					
									no./Type of Containers	Cracked /broken	Improp. Sealed	Good Cond.	Other Comments	
1	12-2-96	PM	S	MEDH		EAST BASE/10'	GRO	208A00	1 50c 1 20c/m					
2	12-2-96	PM	S	MEDH		WEST BASE/10'	GRO	208A01						
3	12-2-96	PM	S	MEDH		DISPENSER/3'	GRO	208A02						
	12-2-96	PM		MEDH		MEDH BLANK	GRO	208A03	1-20c/m					

FOOTNOTES  
1. specify groundwater, surface water, soil, leachate, sludge, etc.  
2. sample description must clearly correlate the sample ID to the sampling location.

- ANALYSIS CODES
- |         |                   |                  |                     |
|---------|-------------------|------------------|---------------------|
| 1. GRO  | 5. DRO            | 9. Free Liquids  | 13. BETX            |
| 2. PVOC | 6. PAH            | 10. pH           | 14. Protocol D1-GRO |
| 3. Lead | 7. Flashpoint     | 11. TCLP-Benzene | 15. Protocol D1-DRO |
| 4. 8021 | 8. Percent Solids | 12. TCLP-Lead    | 16. 8260            |

QTA# \_\_\_\_\_ En Chem Project# 9612049

BILLING ADDRESS:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Job Name/Number: \_\_\_\_\_

Job Description: \_\_\_\_\_



... chemistry for the environment

1795 Industrial Drive  
Green Bay, WI 54302  
414-469-2436  
800-7-ENCHEM  
FAX: 414-469-8827

Lab Certification No. 405132750  
Location : PROJ. #0973  
Your Sample ID: 1  
Sample Desc. : EAST BASE / 10'  
Sample Matrix : SOIL Date Collected: 12/02/1996  
En Chem Proj# : 9612049 Date Received : 12/04/1996  
En Chem Lab # : 208400 Date Reported : 12/09/1996

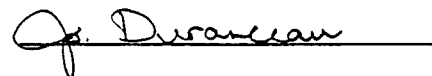
Report to: MORaine ENVIRONMENTAL  
1234 12TH AVENUE  
GRAFTON, WI 53024-1924

Bill to: MORaine ENVIRONMENTAL

Analysis	Parameter	Result	Units	Detection Limit	Prep Method	Prep Date	Analysis Method	Analysis Date	Analyzed By
TOTSOLID	Total Solids	86	percent				SM2540G	12/06/1996	PHS
GRO-S	Gasoline Range Organics(GRO)-Soil	ND	mg/kg	2.9		12/05/1996	WDNR MOD GRO	12/07/1996	EGS
	Soil spike	104	% RECOV	50					
	Soil spike duplicate	101	% RECOV	50					

"ND" Indicates no detectable analyte at or above the listed detection limit. All results reported on a dry weight basis. All subcontracted analyses are performed by Wisconsin DNR certified laboratories.

These results have been reviewed and their authenticity verified by:





... chemistry for the environment

1795 Industrial Drive  
 Green Bay, WI 54302  
 414-469-2436  
 800-7-ENCHEM  
 FAX: 414-469-8827

Lab Certification No. 405132750  
 Location : PROJ. #0973  
 Your Sample ID: 2  
 Sample Desc. : WEST BASE / 10'  
 Sample Matrix : SOIL Date Collected: 12/02/1996  
 En Chem Proj# : 9612049 Date Received : 12/04/1996  
 En Chem Lab # : 208401 Date Reported : 12/09/1996

Report to: MORaine ENVIRONMENTAL  
 1234 12TH AVENUE  
 GRAFTON, WI 53024-1924

Bill to: MORaine ENVIRONMENTAL

Analysis	Parameter	Result	Units	Detection Limit	Prep Method	Prep Date	Analysis Method	Analysis Date	Analysis Analyzed By
TOTSOLID	Total Solids	93	percent				SM2540G	12/06/1996	PHS
GRO-S	Gasoline Range Organics(GRO)-Soil	ND	mg/kg	2.7		12/05/1996	WDNR MOD GRO	12/07/1996	EGS
	Soil spike	104	% RECOV	50					
	Soil spike duplicate	101	% RECOV	50					

"ND" Indicates no detectable analyte at or above the listed detection limit. All results reported on a dry weight basis. All subcontracted analyses are performed by Wisconsin DNR certified laboratories.

These results have been reviewed and their authenticity verified by:



... chemistry for the environment

1795 Industrial Drive  
Green Bay, WI 54302  
414-469-2436  
800-7-ENCHEM  
FAX: 414-469-8827

Lab Certification No. 405132750  
Location : PROJ. #0973  
Your Sample ID: 3  
Sample Desc. : DISPENSER / 3'  
Sample Matrix : SOIL Date Collected: 12/02/1996  
En Chem Proj# : 9612049 Date Received : 12/04/1996  
En Chem Lab # : 208402 Date Reported : 12/10/1996

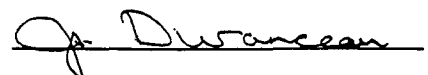
Report to: MORaine ENVIRONMENTAL  
1234 12TH AVENUE  
GRAFTON, WI 53024-1924

Bill to: MORaine ENVIRONMENTAL

Analysis	Parameter	Result	Units	Detection Limit	Prep Method	Prep Date	Analysis Method	Analysis Date	Analyzed By
TOTSOLID	Total Solids	94	percent				SM2540G	12/06/1996	PHS
GRO-S	Gasoline Range Organics(GRO)-Soil	ND	mg/kg	2.7		12/05/1996	WDNR MOD GRO	12/10/1996	BSJ
	Soil spike	107 % RECOV		50					
	Soil spike duplicate	104 % RECOV		50					

"ND" Indicates no detectable analyte at or above the listed detection limit. All results reported on a dry weight basis. All subcontracted analyses are performed by Wisconsin DNR certified laboratories.

These results have been reviewed and their authenticity verified by:





... chemistry for the environment

1795 Industrial Drive  
Green Bay, WI 54302  
414-469-2436  
800-7-ENCHEM  
FAX: 414-469-8827

Lab Certification No. 405132750  
Location : PROJ. #0973  
Your Sample ID:  
Sample Desc. : MEOH BLANK  
Sample Matrix : METHANOL Date Collected: 12/02/1996  
En Chem Proj# : 9612049 Date Received : 12/04/1996  
En Chem Lab # : 208403 Date Reported : 12/10/1996

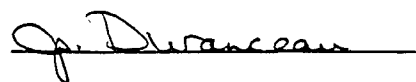
Report to: MORAIN ENVIRONMENTAL  
1234 12TH AVENUE  
GRAFTON, WI 53024-1924

Bill to: MORAIN ENVIRONMENTAL

Analysis	Parameter	Result	Units	Detection Limit	Prep Method	Prep Date	Analysis Method	Analysis Date	Analysis Analyzed By
GRO	Gasoline Range Organics(GRO)-Water	ND	ug/l	2500		12/05/1996	WDNR MOD GRO	12/09/1996	BSJ
	Blank spike	107 % RECOV		50					
	Blank spike duplicate	104 % RECOV		50					

"ND" Indicates no detectable analyte at or above the listed detection limit. All results reported on a dry weight basis. All subcontracted analyses are performed by Wisconsin DNR certified laboratories.

These results have been reviewed and their authenticity verified by:



**APPENDIX E**

**TANK AND SLUDGE  
DISPOSAL DOCUMENTATION**



ATT Amy

KOHNE SALVAGE CO.

W200 S7203 Williams Dr.  
Muskego 6791135

Date 12-5-96

The storage tank(s) listed been received by Kohne Salvage co.

The tank(s) are cleaned and flame free before Kohne salvage co. taking possession of tank(s)

Kohne Salvage Co. destroys all tank(s) NOT TO SOLD FOR REUSE

Contractor TNT SERVICES

Tank Location one stop

Tank Sizes:

- 1. 1000 STEEL
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4. \_\_\_\_\_
- 5. \_\_\_\_\_
- 6. \_\_\_\_\_
- 7. \_\_\_\_\_
- 8. \_\_\_\_\_
- 9. \_\_\_\_\_
- 10. \_\_\_\_\_

*Jim Kohne*

## **Gasoline Sludge Disposal Documentation**

Less than five gallons of gasoline sludge was containerized in a 17-H DOT drum. The material was removed by the contractor to be utilized in a waste oil burner.