

**SITE ASSESSMENT  
FOR UNDERGROUND  
STORAGE TANK  
REPORT**

for the

**HILDAMILLHEAM  
PROPERTY  
1112 Madison Road  
Beloit, Wisconsin**

Prepared for

**Mr. Rex E. Millheam  
Power of Attorney  
3115 West Woodfield Drive  
Mequon, Wisconsin 53092**



**Midwest  
Enviro-Sciences, Inc.**

**SITE ASSESSMENT  
FOR UNDERGROUND STORAGE TANK  
Closure Assessment Report**

for the

**Hilda Millheam Property  
1112 Madison Road  
Beloit, Wisconsin**

*Prepared for:*

**Mr. Rex E. Millheam  
Power of Attorney  
3115 West Woodfield Drive  
Mequon, Wisconsin 53092**

*Prepared by*

**Midwest Enviro-Sciences, Inc.  
P.O. Box 13183  
Wauwatosa, Wisconsin 53226  
(414) 259-0700**

June 17, 1996

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**QUALITY CONTROL SIGNATURE PAGE**

**UNDERGROUND STORAGE TANK  
CLOSURE ASSESSMENT REPORT**

for the

**Hilda Millheam Property  
% Mr. Rex E. Millheam  
Power of Attorney  
3115 West Woodfield Drive  
Mequon, Wisconsin 53092**

June 17, 1996

Midwest Enviro-Sciences, Inc., (MIDWEST), on behalf of Mr. Rex E. Millheam, is pleased to submit this Underground Storage Tank Closure Assessment Report (closure report) for the former underground storage tank (UST) systems at the Hilda Millheam property located at 1112 Madison Road in Beloit, Wisconsin. This closure report was prepared according to the Wisconsin Department of Natural Resources (WDNR) guidance documentation entitled *Site Assessments for Underground Storage Tank Technical Guidance* (PUBL-SW-175-92, Sept, 1992). If you have any questions regarding this report, please do not hesitate to call me at (414) 259-0700.

Respectfully Submitted,  
**Midwest Enviro-Sciences, Inc.**

Mark A. Rutkowski P.G.  
President



*Midwest Enviro-Sciences, Inc.*

(414) 259-0700

(Fax) 453-3955

## **1.0 INTRODUCTION**

Midwest Enviro-Sciences, Inc., (MIDWEST) completed an underground storage tank (UST) closure report for Mr. Rex E. Millheam. Mr. Millheam is the Power of Attorney and client representative on behalf of Hilda Millheam (client). The closure report was completed in fulfillment of a contract between client and MIDWEST for the scope of services described in proposal N° 30886A for the Hilda Millheam property located at 1112 Madison Road in Beloit, Wisconsin (Millheam property).

The UST closure assessment activities were completed for 5 UST systems at the Millheam property. Former USTs removed from the Millheam property including approximate volume and reported product type were:

- 1-1,000 gallon gasoline product UST; (identified as UST 1);
- 1-550 gallon gasoline product UST (identified as UST A);
- 1-1,000 gallon gasoline product UST (identified as UST B);
- 1-550 gallon gasoline product UST (identified as UST C); and
- 1-550 gallon waste oil product UST (identified as UST D).

All of the USTs were removed from the property by Robert Sucik Tank Removal, Inc. (Sucik). UST 1 and USTs A through C were removed from the Millheam property on May 17, 1996. UST D was removed on May 23, 1996. The following sections provide the details of the UST removal activities completed by Sucik and documented by MIDWEST.



## **2.0 SITE BACKGROUND INFORMATION**

### **2.1 UST SYSTEM OWNER/OPERATOR**

The UST systems were owned by Hilda Millheam. Mr. Rex E. Millheam, Power of Attorney, is the client representative for Mrs. Millheam. Mr. Millheam's mailing address is 3115 West Woodfield Drive in Mequon, Wisconsin 53092.

### **2.2 LOCATION**

The property is located at 1112 Madison Road in Beloit, Wisconsin. It is in the Southwest 1/4 of the Southwest 1/4 of the Southeast 1/4 of Section 27, Township 1 North, Range 12 East (SW1/4, SE1/4, SE1/4, Sec. 27, T1N, R12E) in Rock County, Wisconsin. The approximate latitude of the property is 42 degrees (°), 30 minutes (') and 40 seconds (") and the longitude is 89° 02' 29". Figure 1 (Property Location Map) shows the approximate location of the property on portions of the Beloit 7.5 Minute Topographic Map (United States Geologic Survey).

### **2.3 CERTIFIED SITE ASSESSOR**

The site assessment was completed by Mr. Mark A. Rutkowski (Site Assessor #01493). Mr. Rutkowski is employed by Midwest Enviro-Sciences, Inc., P.O. Box 13183 Wauwatosa, Wisconsin; (414) 259-0700.

### **2.4 OTHER CONTRACTORS**

The UST was removed by Robert Sucik Tank Removal, Inc. (Sucik) located at N8990 East Miramar Drive in East Troy, Wisconsin. Sucik personnel completed the cleaning, abandonment, and backfilling of the former UST excavation.

### **2.5 SUMMARY OF PAST AND PRESENT PROPERTY USE**

The earliest documentation on the history of the property was provided by Mr. Rex Millheam. According to Mr. Millheam, the property was owned by the Good-All/Crowley Oil Company between 1930 to 1952. For the next 10 years, the property was a Pure Oil Company service station. In 1962, the property was purchased by Mr. Millheam's father who leased the property

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to a One-Hour Martinizing Drycleaning business until 1973. Several small businesses including a bakery and a pizza parlor leased the property from the Millheams between 1973 until the property was purchased by the City of Beloit in February of 1996.

## **2.6 LOCAL GROUNDWATER USE**

According to City of Beloit personnel, drinking water in the area is supplied by Wisconsin Power and Light Company. Depth to groundwater was not determined during the UST removal activities. Groundwater was not encountered during the UST removal activities.



### **3.0 UST SITE ASSESSMENT**

#### **3.1 METHOD(S) OF TANK CLOSURE**

The method of tank closure was demolition and removal.

#### **3.2 DILHR CERTIFIED REMOVER/CLEANER**

The DILHR certified remover/cleaner was Mr. Robert Sucik (certification number 01942). Mr. Sucik is employed by Robert Sucik Tank Removal, Inc. located at N8990 East Miramar Drive in East Troy, Wisconsin 53120.

The ILHR 10 Notification record, Underground Petroleum Product Tank Inventory and Checklist for Underground Tank Closure forms were completed by the certified remover/cleaner. These forms were reportedly submitted to Department of Industry, Labor, and Human Relations (DILHR). A site health and safety plan was also prepared by Sucik personnel. The site health and safety plan as well as the Checklist for Underground Tank Closure and other documentation are contained in Appendix A of this document.

#### **3.3 SUBCONTRACTORS**

Laboratory services for the soil samples for the UST closure assessment were completed by Great Lakes Analytical Laboratories, Inc. located at 1380 Busch Parkway in Buffalo Grove, Illinois. A copy of the Great Lakes analytical report is contained in Appendix B of this document.

#### **3.4 DESCRIPTION OF TANKS REMOVED**

The following USTs were removed from the Millheam property:

- o 1-1,000 gallon gasoline product UST; (identified as UST 1);
- o 1-550 gallon gasoline product UST (identified as UST A);
- o 1-1,000 gallon gasoline product UST (identified as UST B);

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- o 1-550 gallon gasoline product UST (identified as UST C); and
- o 1-550 gallon waste oil product UST (identified as UST D).

Figure 2 (Property Features Map) shows the approximate locations of the UST systems while Figure 3 (Soil Sample Location Map) shows where each of the USTs listed above are located at the property.

### **3.5 OTHER TANKS REMAINING ON SITE**

Reportedly, no other USTs exist at the property.

## **4.0 TANK CLEANING AND DISPOSAL**

### **4.1 HANDLING OF ANY CLEANING WASTE WATER**

No cleaning waste water was generated during the UST removal activities.

### **4.2 LOCATION WHERE TANKS WERE CLEANED**

The USTs were cleaned on the property located at 1112 Madison Road in Beloit, Wisconsin.

### **4.3 METHOD OF TANK TRANSPORT**

The USTs were all cut on site by Sucik personnel. Cut up sections of the USTs were transported to the Kral Scrap Iron Co. (Kral) in Big Bend, Wisconsin.

### **4.4 WAIVER TO TRANSPORT**

Since the UST was cut in sections, no waiver to transport was needed to transport the scrap iron to Kral.

### **4.5 FIRMS DISMANTLING, TRANSPORTING, AND DISPOSING OF TANK(S)**

The UST cut in-place by Sucik personnel and transported to Kral as scrap iron.

## **5.0 SURPLUS PRODUCT MANAGEMENT**

### **5.1 TYPES OF LIQUIDS**

Nine-55 gallon drums of sludge/product/water were removed from the USTs on the property. An approximate inventory of these drums is presented below:

- 1 drum from UST 1 containing affected sand and gravel;
- 2 drums for an approximate total volume of 80 gallons of old gasoline, sludge and water;
- 4 drums for an approximate total of 190 gallons of waste oil/diesel fuel;
- 2 drums of gasoline/water mix.

To date, these drums are still on site. They have been secured with fencing by Sucik.

Approximately 250 gallons of water was pumped out of the USTs prior to their removal. The water was removed by Doc's Sewer and Water Service, Inc. and reportedly shipped to a licensed wastewater treatment facility. In addition, 400 gallons of waste oil was removed from UST D by Quick Service Waste Oil Company on May 2, 1996.

### **5.2 TYPE OF SLUDGE**

The sludge, which is mixed with the product/water inside the drums is derived from former USTs.

## **6.0 VISUAL INSPECTION**

### **6.1 WEATHER**

In the morning, cool (low to mid 50's) temperatures prevailed. Skies were overcast and a slight fog covered the area. By late morning, skies grew clear as temperatures soared to the mid to upper 70's.

### **6.2 SITE CONDITIONS**

The Millheam property consists of a triangular shaped parcel of land between Madison Road (State Highway 213), Liberty Avenue (State Highway 81) and McKinley Avenue. It is surrounded by several other commercial and residential properties. An active gasoline service station is located directly east of the property while an abandoned gasoline station is located southeast. A bar/restaurant was identified south of the property while a City of Beloit fire station is located to the southwest. Residential properties are observed along the western portion of the Millheam property. The adjacent properties are contained as an insert on Figure 2 (Property Features Map).

A single gasoline UST (UST 1) was located off of the southeastern corner of a building on the property. The remaining four USTs (A through D) were located in the easternmost portion of the property.

### **6.3 EXCAVATION**

Two separate excavations were needed to remove all of the USTs from the Millheam property. The excavations were made somewhat continuous by the pipelines which were also removed from the property during the UST removal activities.

Native soil observed inside each of the UST excavations consisted of an upper layer consisting of dark brown silty loam (0 to 2 feet below land surface (ft bls)) overlying 2 to 3 ft thick sand and gravel layer. Beneath the sand and gravel layer was a medium grained sand that was observed to the base of the USTs.

No groundwater was encountered during the UST removal activities. According to a report submitted to the City of Beloit for other environmental investigation activities completed at the property, groundwater was at a depth of 32 ft bls.

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#### **6.4 TANK SYSTEM COMPONENTS**

The UST system components consisted of the USTs previously described, and piping to a centralized pump island. Figure 2 Property Features Map) and Figure 3 (Soil Sample Location Map) depicts the UST systems components.

None of the USTs had any obvious open holes from corrosion. The USTs were pitted and corroded but no pin holes were observed after they were removed from beneath the land surface.

Two of the USTs were damaged by some type of probing equipment. Damage was evident on UST 1 and UST B prior to removal by Sucik personnel. It should be noted that the width of the teeth on the backhoe used by Sucik personnel was larger than the holes observed on the sides of UST 1 and UST B. No releases to the soil were observed in the vicinity of these damaged USTs.

## **7.0 SOIL SAMPLING**

As required as part of the UST closure assessment documentation, soil samples were collected beneath the base of each UST as well as beneath the piping runs. A total of six soil sample locations were beneath the USTs while three locations were beneath the pipe runs. Soil samples collected from beneath the USTs and the pipeline were collected with a hand auger. At the UST sample locations, the hand auger was advanced to a depth of 3 ft below the base of the UST bed. (This depth is equivalent to 8.5 ft bls). Soil encountered at each of the sample locations consisted of a brown fine to medium grained sand. This soil type persisted to the base of the hand auger sample location. Soil was collected from a depth of 3 ft bls under the piping runs. Figure 3 (Soil Sample Location Map) show the locations of each soil sample collected. No groundwater was encountered during the completion of the hand auger borings at the property.

Reportedly, four of the USTs were used to store gasoline product while the fifth UST was for waste oil storage. Soil samples collected beneath the gasoline product USTs and pipelines were submitted for analysis of gasoline range organic (GRO) constituents. These included soil samples UST-1 through UST-6 and LN-1 through LN-3. Because of the location of the waste oil UST, soil sample UST-4 was submitted for analysis of diesel range organic (DRO) constituents. This analysis is consistent with the WDNR soil sample analytical guidance document entitled *Site Assessments for Underground Storage Tanks Technical Guidance* (PUBL-SW-175-92). A methanol trip blank was also submitted for chemical analysis of GRO constituents.

### **7.1 GRO ANALYTICAL RESULTS**

GRO was not detected above the laboratory method detection in soil sample UST-1 through UST-6 and LN-1 through LN-3. The results are summarized in Table 1 (Chemical Analytical Results of Soil Samples).

### **7.2 DRO ANALYTICAL RESULTS**

DRO was not detected above the laboratory method detection limit in soil sample UST-4.

### **7.3 FIELD SCREENING RESULTS**

Duplicate soil samples were collected from the same locations as the samples submitted for chemical analysis and screened with an organic vapor meter (OVM). A model 580B OVM

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manufactured by Thermo Enviro Instruments, Inc., equipped with a 11.7 electron volt (eV) lamp was used to field screen the soil samples. (The OVM was calibrated using a 250 ppm isobutylene span gas standard with a response factor of 1.0). OVM field screening results from each sample location were as follows: UST-1; 1.4 parts per million (ppm) instrument units (IU), UST-2; 2.0 ppm IU, UST-3; 0.3 ppm IU, UST-4; 1.7 ppm IU, UST-5; 0.0 ppm IU, and UST-6; 0.0 ppm IU. OVM measurements of the pipeline samples are: LN-1; 0.5 ppm IU, LN-2; 0.0 ppm IU, and LN-3; 0.5 ppm IU.

## **8.0 CONCLUSIONS**

No petroleum product release, in the form of GRO or DRO constituents, has occurred from the former UST systems at the Millheam property. Native soil at the property consists of fine to medium grained brown sand. This type of soil is considered high permeability soil in accordance with chapter NR 720 of the Wisconsin Administrative Code. The cleanup criteria limits for DRO and GRO in this type of soil is 100 mg/kg. No groundwater was encountered during the UST removal or soil sample collection activities.

## **9.0 RECOMMENDATIONS**

Based on the results of the chemical analysis completed on the soil samples collected by MIDWEST personnel and on the field observations made during the removal of the former USTs Millheam property, MIDWEST recommends that:

- o No additional investigation activities are necessary.

**10.0 REFERENCES**

Beloit 7.5 Minute Series Topographic Map. USGS Photorevised 1976.

# FIGURES

REVISION BY:

DRAWN BY: LGK

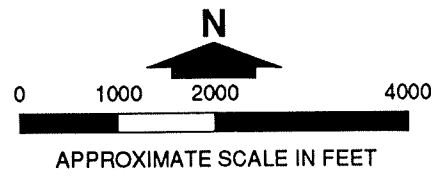
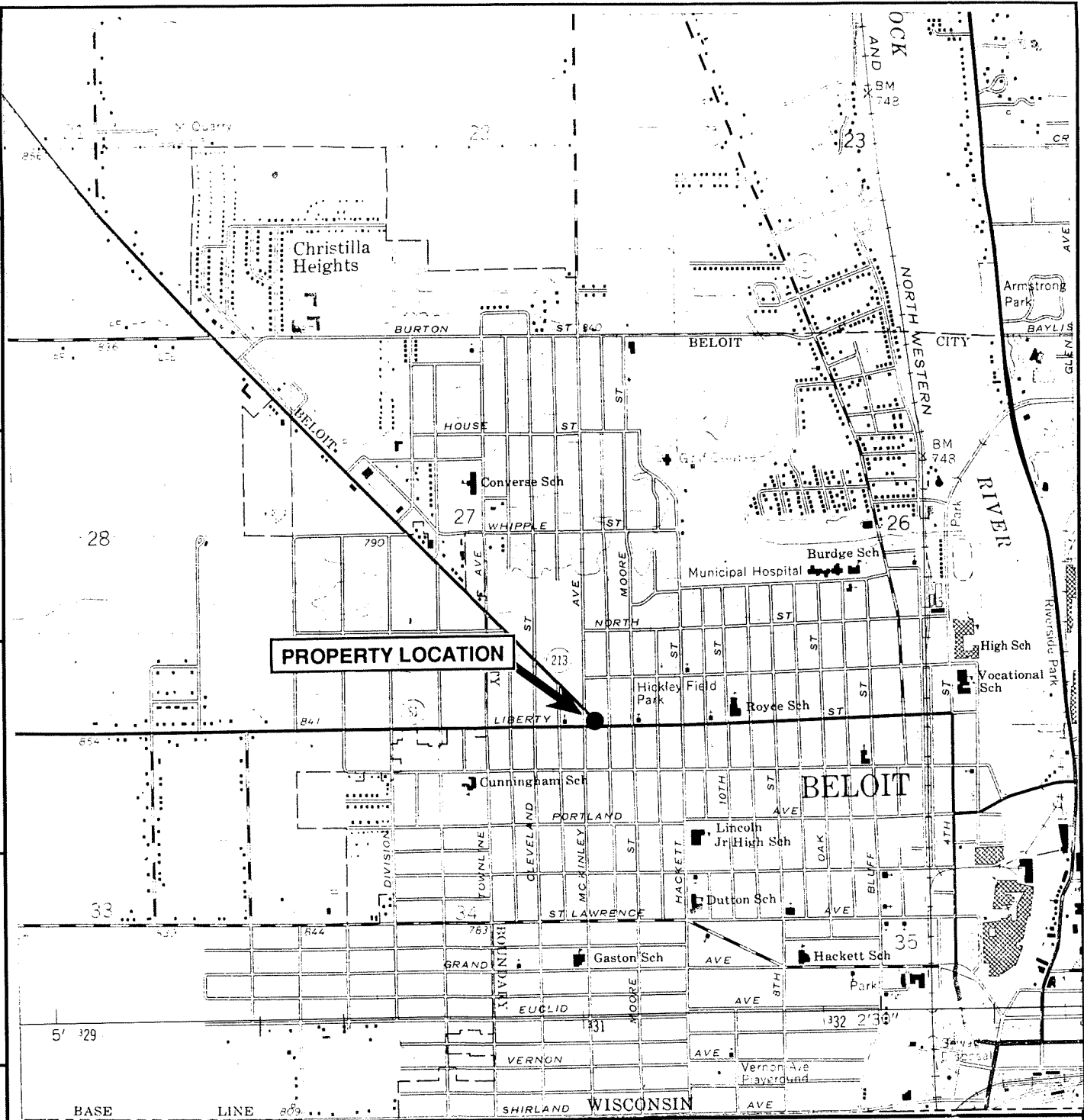
APPROVED BY: MAR

PROJECT NO.:

DATE: 22MAY96

FILE NUMBER: 01

DISK NUMBER:

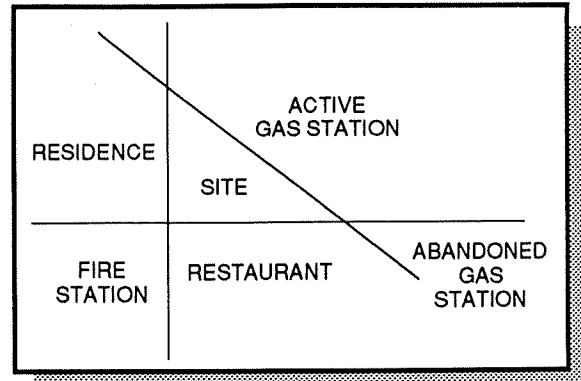


SOURCE: 7.5 Minute Topographic Map,  
 BELOIT, WISCONSIN,  
 1976, Quadrangle.

**FIGURE 1**  
**PROPERTY LOCATION MAP**  
 MILLHEAM PROPERTY  
 1112 MADISON ROAD  
 BELOIT, WISCONSIN



N  
NOT TO SCALE

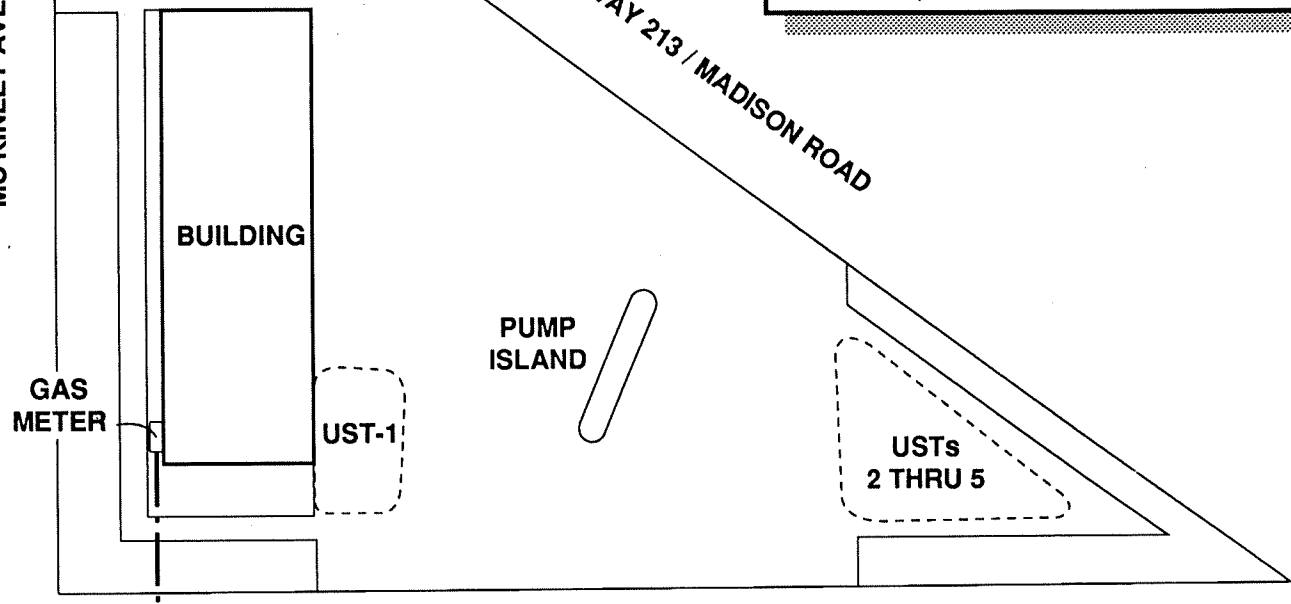


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DRAWN BY: LGK  
APPROVED BY: MAR  
PROJECT NO.:  
DATE: 22MAY96  
FILE NUMBER: 02  
DISK NUMBER:

MC KINLEY AVENUE

HIGHWAY 213 / MADISON ROAD

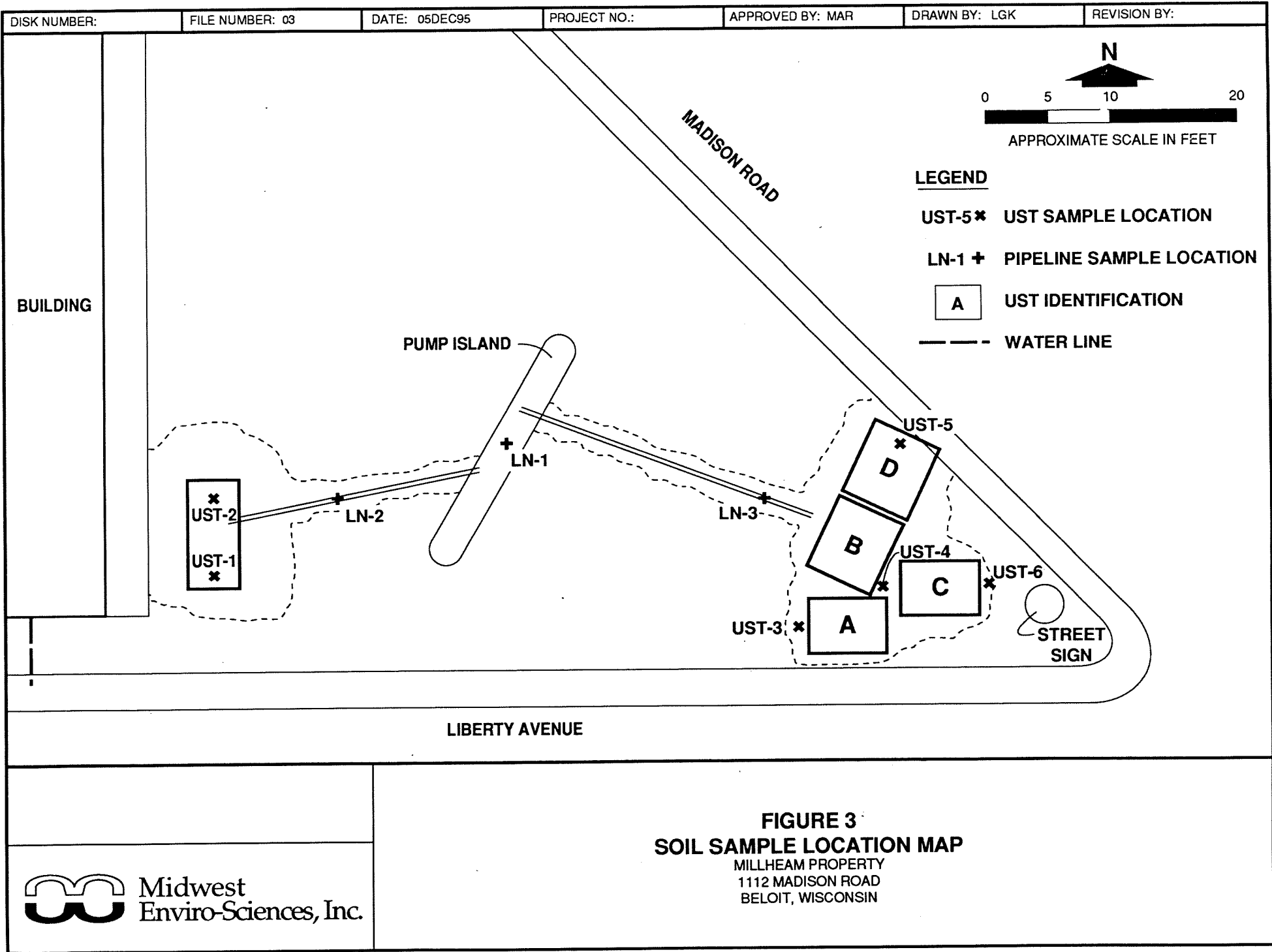
HIGHWAY 81 / LIBERTY AVENUE



**FIGURE 2**  
**PROPERTY FEATURES MAP**  
MILLHEAM PROPERTY  
1112 MADISON ROAD  
BELOIT, WISCONSIN







# TABLES

Table 1. Chemical Analytical Results of Soil Samples  
 Hilda Millheam Property  
 1112 Madison Road  
 Beloit, Wisconsin.

Constituent	Unit of Measure	Sample						IDs				Trip
		LN-1	LN-2	LN-3	UST-1	UST-2	UST-3	UST-4	UST-5	UST-6		
OVM measurement	ppm IU	0.5	0.0	0.5	1.4	2.0	0.3	1.7	0.0	0.0	---	
GRO (in soil)	mg/kg	<6.0	<5.6	<5.7	<6.3	<6.3	<5.9	<6.3	<5.5	<7.8	---	
GRO (liquid)	$\mu\text{g/l}$	---	---	---	---	---	---	---	---	---	<5,000	
DRO	mg/kg	---	---	---	---	---	---	<6.3	---	---	---	

mg/kg = Milligrams per kilogram or parts per million (ppm).

$\mu\text{g/l}$  = Micrograms per liter or parts per billion (ppb).

ppm IU = Parts per million instrument units.

UST-1 = Soil sample identification.

GRO = Gasoline range organic constituents.

DRO = Diesel range organic constituents.

> = Greater than.

< = Less than.

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# APPENDICES

# APPENDIX A

# SITE HEALTH & SAFETY PLAN FOR UNDERGROUND STORAGE TANK CLOSURES

by  
ROBERT SUCIK TANK REMOVAL, INC.

The following form must be completed ONLY by the Certified Site Supervisor.

NO WORK MAY BE INITIATED WITHOUT PRIOR COMPLETION OF THE SAFETY FORM AND WITHOUT CONTINUOUS ON-SITE SUPERVISION BY THE CERTIFIED PROJECT SUPERVISOR THROUGHOUT CLEANING/REMOVAL OF THE TANK.

**I.**  
**GENERAL SITE INFORMATION**

Site Name REX MILLHEAM  
Address 1112 Madison Rd.  
BELOIT, WI 53511  
Phone: NONE  
Owner Phone: 414-242-6914  
(if different)

**IV.**  
**ANTICIPATED DATES OF WORK**

Date of Job Initiation: May 14, 1996  
Date of Anticipated Completion: MAY 17, 1996

**II.**  
**DESCRIPTION OF CONTRACTED WORK  
(check if applicable)**

Cleaning/Removal of empty tank system  
 Cleaning/Removal of filled tank system  
 Subcontracted removal of wastewater  
 Subcontracted hauling of inert fill

**V.**  
**POTENTIAL HEALTH & SAFETY HAZARDS**

Heat     Explosive atmosphere  
 Excavation hazards     Cold  
 Oxygen Deficient atmosphere  
 Contact with petroleum products  
 Buried/overhead cables near site  
 Overhanging tree limbs  
 Other (specify): \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**III.**  
**SPECIFIC SITE INFORMATION**

Capacity & Contents: UNKNOWN OLD GAS STATION

Tank #1 550 gallon gas / \_\_\_\_\_  
Tank #2 550 gallon gas / \_\_\_\_\_  
Tank #3 1000 gallon gas / \_\_\_\_\_  
Tank #4 1000 gallon gas / \_\_\_\_\_

Type of site:  Residential     Agricultural

**VI.****METHODS TO CONTROL POTENTIAL HEALTH & SAFETY HAZARDS**

- Use of Combustible Gas/Oxygen Indicator (CGI)  
Date of last calibration: FALL OF 95  
By whom: PAGEL SAFETY  
0 - 10% LEL:  Yes  No
- Introduction of Dry Ice at 1.5 lbs./100 gals. capacity  
Less than 19.5% oxygen:  Yes  No
- Site of excavation secured?
- Ladders on site and in use?
- Fire extinguisher on site and available to excavation site?
- Diggers' Hotline contact and approval?  
Approved Start Date/Time:  
May 13, 1996 10:45 am  
Ticket #: 3731371

Personal Protective Equipment Required, Present and In Use at Site (check):

- Insulated clothing (cold)
- Hardhat
- Safety glasses/goggles
- Flame retardant coveralls
- Overboots
- Outer gloves (impermeable)
- Half-face respirators
- Full-face respirator with continuous air & safety cartridge

**VII.****SITE SPECIFIC EMERGENCY INFORMATION**

Emergency Phone #'s:

Fire/Rescue: 911

Police: 911

Closest Hospital :

Name Beloit Memorial Hospital

Address: 1969 West Hart Rd.

Beloit, WI 53511

General PH# 364-5011

EMERGENCY PHONE NUMBER 364-5151  
OUR PHONE YOU MUST PUNCH 608 AREA CODE FOR BELOIT NUMBERS

**VIII.****SITE SUPERVISOR APPROVED**

- Plan reviewed
- Equipment checked and on site
- Personnel trained in use of equipment
- Personnel advised of safety plan and procedures
- Safety attendant required and present on site
- Confined space entry permit required and issued

**IX.****CONFINED SPACE ENTRY PERMIT INFORMATION**

Oxygen levels

Time	% Reading	Supervisor Initials
_____	_____	_____
_____	_____	_____
_____	_____	_____

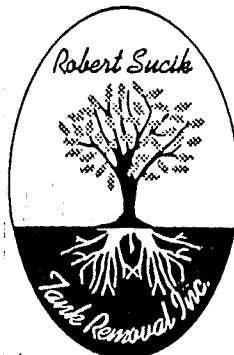
Person Authorized to Enter:  
\_\_\_\_\_

Date: \_\_\_\_\_

Time In: \_\_\_\_\_

Time Out: \_\_\_\_\_

Supervisor Signature:  
\_\_\_\_\_



**Robert Suck**  
**Tank Removal, Inc.**  
N8990 East Miramar Drive  
East Troy, WI 53120  
(414) 642-5257

OUR MOBILE PHONE NUMBER 414-861-8265  
FOR DIAL OUT / DIAL NUMBER / HEAR TWO RINGS PUNCH IN 7993 PLUS RED BUTTON.



Wisconsin Department of Industry, Labor and Human Relations

CHECKLIST FOR UNDERGROUND TANK CLOSURE

RETURN COMPLETED CHECKLIST TO: Safety & Buildings Division, Fire Prevention & Underground Storage Tank Section, P. O. Box 7969, Madison, WI 53707

Complete one form for each site closure.

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

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

1. Site Name: HILDA MILLHEAM; 2. Owner Name: HILDA MILLHEAM; Site Street Address: 1112 MADISON RD; Owner Street Address: 1427 LAWRENCE AVE; City: BELLOIT; State: WIS; Zip Code: 53511; County: ROCK; Telephone No.: (414) 242-6914

3. Closure Company Name: ROBERT SUCIK TANK REMOVAL; Closure Company Street Address: N8990 E. MIRAMAR DR. EAST TROY, WI 53120; Closure Company Telephone No.: (414) 642-5906; 4. Name of Company Performing Closure Assessment: MIDWEST ENVIR-SCIENCE, INC.; Assessment Company Street Address: P.O. Box 13145 WAUKESHA, WI 53213; Telephone #: (414) 259-0700; Certified Assessor Name: Mark A. Rutkowski; Assessor Signature: [Signature]; Assessor Certification No.: 01439

Table with 7 columns: Tank ID #, Closure, Temp. Closure, Closure In Place, Tank Capacity, Contents \*, Closure Assessment. Rows 1-6 with handwritten data.

\* 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. [X] Y [ ] N [ ] NA; All local permits were obtained before beginning closure. [X] Y [ ] N [ ] NA

B. TEMPORARILY OUT OF SERVICE. Check applicable box at right in response to all statements in Sections B - E. Includes items like 'Product Removed', 'Fill pipe, gauge pipe, tank truck vapor recovery fittings, and vapor return lines capped'.

C. CLOSURE BY REMOVAL. Includes items like 'Product from piping drained into tank (or other container)', 'Piping disconnected from tank and removed', 'All liquid and residue removed from tank using explosion proof pumps or hand pumps'.

TANK CUT INTO SECTIONS ON SITE

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. <i>SCRAP</i>                                       | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| <b>NOTE: COMPLETE TANK LABELING SHOULD INCLUDE WARNING AGAINST REUSE; FORMER CONTENTS; VAPOR STATE; VAPOR FREEING TREATMENT; DATE.</b> |  |                                     |                                     |
| 12. Tank vent hole (1/8 in. in uppermost part of tank) installed prior to moving the tank from site.                                   | <input type="checkbox"/> Y <input type="checkbox"/> N            | <input type="checkbox"/>            | <input checked="" 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"/>            |

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 residuo 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"/> |
| <b>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.</b> |   |                          |                          |
| 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"/> |

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 type="checkbox"/> | <input type="checkbox"/> |
| 2. Do points of obvious contamination exist?   | <input type="checkbox"/> Y <input checked="" type="checkbox"/> N | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Are there strong odors in the soils?  | <input type="checkbox"/> Y <input checked="" type="checkbox"/> N | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. Was a field screening instrument used to pre-screen soil sample locations?  | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | <input 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 type="checkbox"/> | <input type="checkbox"/> |
| 6. Was the DNR notified of suspected or obvious contamination? <i>NA</i>   | <input type="checkbox"/> Y <input type="checkbox"/> N            | <input type="checkbox"/> | <input type="checkbox"/> |
| Agency, office and person contacted:   |  |                          |                          |
| 7. Contamination suspected because of: <input type="checkbox"/> Odor <input type="checkbox"/> Soil Staining <input type="checkbox"/> Free Product <input type="checkbox"/> Sheen On Groundwater <input type="checkbox"/> Field Instrument Test |  |                          |                          |

F. METHOD OF ACHIEVING 10% LEVEL DESCRIPTION

- Eductor 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<sub>2</sub> or N<sub>2</sub>) **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

ROBERT W. SUCIK *Robert W. Sucik* 01942 5/23/96  
 Remover Name (print) Remover Signature Remover Certification No. Date Signed

I. INSPECTOR INFORMATION

Gary Schenck *Gary Schenck* 00541  
 Inspector Name (print) Inspector Signature Inspector Certification No.  
53010 608-384-2900 5-23-96  
 FDID # For Location Where Inspection Performed Inspector Telephone Number Date Signed

OWNER

414-642-5906

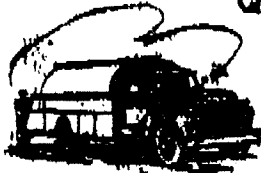
STATEMENT

QUICK SERVICE WASTE OIL CO.

&

SCRAP FUEL OIL

P.O. 504, SUN PRAIRIE, WI 53880  
608-837-4549



Robert UOIC TANK Removal DATE 5/2/96  
10

Mill Home

ADDRESS 1112 Madison Rd

CITY Beloit STATE WI ZIP

10000

400 gallons	30	120.00	
2 1/2 hrs @ 75 per hr		187.50	-
Pump out under oil			
P.O. 11255			
			307.50

# APPENDIX B

Date: May 28, 1996

 Midwest Enviro-Sciences  
 2138 N. 68th  
 Wauwatosa, WI 53213  
 Attention: Mark Rutkowski

Project: Millheam

Enclosed are the results from 9 soil samples and 1 liquid sample received at Great Lakes Analytical on May 20, 1996. The requested analyses are listed below:

SAMPLE#	SAMPLE DESCRIPTION	DATE OF COLLECTION	TEST METHOD
6053032	Soil, LN-1	5/17/96	Percent Solids, EPA 7.3.3.1.5 WDNR GRO
6053033	Soil, LN-2	5/17/96	Percent Solids, EPA 7.3.3.1.5 WDNR GRO
6053034	Soil, LN-3	5/17/96	Percent Solids, EPA 7.3.3.1.5 WDNR GRO
6053035	Soil, UST-1	5/17/96	Percent Solids, EPA 7.3.3.1.5 WDNR GRO
6053036	Soil, UST-2	5/17/96	Percent Solids, EPA 7.3.3.1.5 WDNR GRO
6053046	Soil, UST-3	5/17/96	Percent Solids, EPA 7.3.3.1.5 WDNR GRO
6053053	Soil, UST-4	5/17/96	Percent Solids, EPA 7.3.3.1.5 WDNR DRO WDNR GRO
6053059	Soil, UST-5	5/17/96	Percent Solids, EPA 7.3.3.1.5 WDNR GRO
6053060	Soil, UST-6	5/17/96	Percent Solids, EPA 7.3.3.1.5 WDNR GRO
6053061	Liquid, Trip Blank	5/17/96	WDNR GRO

This report may not be reproduced, except in full, without the written approval of the laboratory.

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

**GREAT LAKES ANALYTICAL**

A handwritten signature in black ink, appearing to read "K. Keeley", written in a cursive style.

Kevin W. Keeley  
Laboratory Director

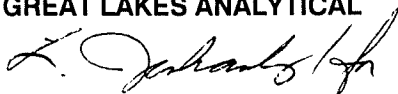
Midwest Enviro-Sciences  
 2138 N. 68th  
 Wauwatosa, WI 53213  
 Attention: Mark Rutkowski

 Client Project ID: Millheam  
 Sample Descript: Soil  
 Analysis for: Percent Solids, EPA 7.3.3.1.5  
 First Sample #: 605-3032

 Sampled: May 17, 1996  
 Received: May 20, 1996  
 Analyzed: May 21, 1996  
 Reported: May 28, 1996

**LABORATORY ANALYSIS FOR: Percent Solids, EPA 7.3.3.1.5**

Sample Number	Sample Description	Detection Limit %	Sample Result %
605-3032	LN-1	0.10	83
605-3033	LN-2	0.10	89
605-3034	LN-3	0.10	88
605-3035	UST-1	0.10	88
605-3036	UST-2	0.10	79
605-3046	UST-3	0.10	85
605-3053	UST-4	0.10	79
605-3059	UST-5	0.10	91
605-3060	UST-6	0.10	64

**GREAT LAKES ANALYTICAL**


 Kevin W. Keeley  
 Laboratory Director



Midwest Enviro-Sciences  
 2138 N. 68th  
 Wauwatosa, WI 53213  
 Attention: Mark Rutkowski

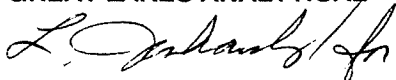
 Client Project ID: Millheam  
 Matrix Descript: Soil  
 Analysis Method: WDNR DRO  
 First Sample #: 605-3053

 Sampled: May 17, 1996  
 Received: May 20, 1996  
 Extracted: May 21, 1996  
 Analyzed: May 28, 1996  
 Reported: May 28, 1996

**DIESEL RANGE ORGANICS**

Sample Number	Sample Description	Detection Limit mg/kg, Dry Weight (ppm)	High B.P. Hydrocarbons mg/kg, Dry Weight (ppm)	Chromatogram Description
605-3053	UST-4	6.3	N.D.	----

High Boiling Point Hydrocarbons is performed as described in Leaking Underground Storage Tank Analytical Guidance, July 1993 WDNR SW 130 93 REV. Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

**GREAT LAKES ANALYTICAL**


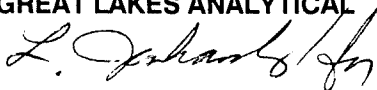
 Kevin W. Keeley  
 Laboratory Director

Midwest Enviro-Sciences 2138 N. 68th Wauwatosa, WI 53213 Attention: Mark Rutkowski	Client Project ID: Millhearn Matrix Descript: Soil Analysis Method: WDNR GRO First Sample #: 605-3032	Sampled: May 17, 1996 Received: May 20, 1996  Analyzed: May 21-28, 1996 Reported: May 28, 1996
---	--	--

**GASOLINE RANGE ORGANICS**

Sample Number	Sample Description	Detection Limit mg/kg, Dry Weight (ppm)	Low/Medium B.P. Hydrocarbons mg/kg, Dry Weight (ppm)	Chromatogram Description
605-3032	LN-1	6.0	N.D.	----
605-3033	LN-2	5.6	N.D.	----
605-3034	LN-3	5.7	N.D.	----
605-3035	UST-1	6.3	N.D.	----
605-3036	UST-2	6.3	N.D.	----
605-3046	UST-3	5.9	N.D.	----
605-3053	UST-4	6.3	N.D.	----
605-3059	UST-5	5.5	N.D.	----
605-3060	UST-6	7.8	N.D.	----

Low to Medium Boiling Point Hydrocarbons is performed as described in Leaking Underground Storage Tank Analytical Guidance July 1993 WDNR SW 130 93 REV. Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

**GREAT LAKES ANALYTICAL**


 Kevin W. Keeley  
Laboratory Director

Midwest Enviro-Sciences 2138 N. 68th Wauwatosa, WI 53213 Attention: Mark Rutkowski	Client Project ID: Millheam Matrix Descript: Liquid Analysis Method: WDNR GRO First Sample #: 605-3061	Sampled: May 17, 1996 Received: May 20, 1996 Analyzed: May 22, 1996 Reported: May 28, 1996
---	---	---

### GASOLINE RANGE ORGANICS

Sample Number	Sample Description	Detection Limit $\mu\text{g/L}$ (ppb)	Low/Medium B.P. Hydrocarbons $\mu\text{g/L}$ (ppb)	Chromatogram Description
605-3061	Trip Blank	5,000	N.D.	----

Low to Medium Boiling Point Hydrocarbons is performed as described in Leaking Underground Storage Tank Analytical Guidance July 1993 WDNR SW 130 93 REV. Analytes reported as N.D. were not present above the stated limit of detection.

**GREAT LAKES ANALYTICAL**


 Kevin W. Keeley  
Laboratory Director

Midwest Enviro-Sciences  
 2138 N. 68th  
 Wauwatosa, WI 53213  
 Attention: Mark Rutkowski

 Client Project ID: Millheam  
 Matrix: Soil

QC Sample Group: 6053032-3060

Reported: May 28, 1996

### QUALITY CONTROL DATA REPORT

**ANALYTE**

Percent Solids

**Method:** 7.3.3.1.5  
**Analyst:** J.Taheria  
**Units:** %

**LAB. CONTROL  
SAMPLE &  
DUP. DATA**
**Date Analyzed:** May 21, 1996

**LCS%  
Recovery:** 100

**LCS Duplicate  
% Recovery:** 100

**Relative %  
Difference:** 0

**GREAT LAKES ANALYTICAL**


 Kevin W. Keeley  
 Laboratory Director

% Recovery:	$\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$
Relative % Difference:	$\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$

Midwest Enviro-Sciences  
 2138 N. 68th  
 Wauwatosa, WI 53213  
 Attention: Mark Rutkowski

 Client Project ID: Millheam  
 Matrix: Soil  
 Method: WDNR DRO  
 QC Sample Group: 605-3053

Reported: May 28, 1996

**QUALITY CONTROL DATA REPORT**
**ANALYTE**

WDRO

**Method:** WDRO  
**Analyst:** J. Wallace  
**Concentration:** 40  
**Units:** mg/kg

**METHOD SPIKE  
& DUP. DATA**
**Date Prepared:** May 21, 1996  
**Date Analyzed:** May 23, 1996  
**Instrument I.D.#** GC-10

**Method Spike  
% Recovery:** 91

**Method Spike  
Duplicate %  
Recovery:** 127

**Relative %  
Difference:** 33

**Control Limits:** 70-120

**GREAT LAKES ANALYTICAL**


 Kevin W. Keeley  
 Laboratory Director

% Recovery:	$\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$
-------------	---

Relative % Difference:	$\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$
------------------------	--

Midwest Enviro-Sciences  
 2138 N. 68th  
 Wauwatosa, WI 53213  
 Attention: Mark Rutkowski

 Client Project ID: Millheam  
 Matrix: Soil  
 Method: WDNR GRO  
 QC Sample Group: 6053032-3061

Reported: May 28, 1996

### QUALITY CONTROL DATA REPORT

**ANALYTE**

WGRO

**Method:** WGRO  
**Analyst:** M. Vang  
**Concentration:** 2,000  
**Units:** ng

**MATRIX SPIKE  
DATA**
**Date Analyzed:** May 22, 1996  
**Instrument I.D.#** GC-3

**Matrix Spike  
% Recovery:** 96

**METHOD SPIKE  
& DUP. DATA**
**Date Analyzed:** May 22, 1996  
**Instrument I.D.#** GC-3

**Method Spike  
% Recovery:** 89

**Method Spike  
Duplicate %  
Recovery:** 95

**Relative %  
Difference:** 7.2

**GREAT LAKES ANALYTICAL**


 Kevin W. Keeley  
 Laboratory Director

% Recovery:	$\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$
Relative % Difference:	$\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$

# CHAIN OF CUSTODY REPORT

1380 BUSCH PARKWAY  
BUFFALO GROVE, ILLINOIS 60089-4505  
(847) 808-7766 FAX (847) 808-7782

Client: <u>Midwest Environ Sci, Inc.</u>		Bill To: <u>Rex Millheum % Midwest</u>		TAT: <u>5 DAY</u> 4 DAY 3 DAY 2 DAY 1 DAY < 24 HRS.
Address: <u>P.O. Box 13183</u>		Address: <u>P.O. Box 13183</u>		DATE RESULTS NEEDED: <u>5/27/96</u>
<u>Wauwatosa, WI 53223</u>		<u>Wauwatosa WI 53226</u>		TEMPERATURE UPON RECEIPT: <u>ON ICE</u>
Report to: <u>Rutkowski</u>	Phone #: <u>(414) 259-0700</u>	State & Program: <u>WI-LUST</u>	Phone #: <u>( )</u>	AIR BILL NO. <u>GLA Plu</u>
	Fax #: <u>(414) 453-3855</u>		Fax #: <u>( )</u>	

FIELD ID, LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	PRESERVATIVES	NO. CONTAINERS	TYPE CONTAINERS			SAMPLE CONTROL			LABORATORY ID NUMBER
						GRD	DRY wt	DRG	CRACKED/BROKEN	IMPROPERLY SEALED	GOOD CONDITION	
1 LN-1	5/17		S	MeOH 4°C	2 glass	1	1	-				✓ 6053032
2 LN-2					2	1	1	-				✓ 6053033
3 LN-3					2	1	1	-				✓ 6053034
4 UST-1					2	1	1	-				✓ 6053035
5 UST-2					2	1	1	-				✓ 6053036
6 UST-3					2	1	1	-				✓ 6053046
7 UST-4					3	1	1	1				✓ 6053053
8 UST-5					2	1*	1	+NHA				✓ 6053059
9 UST-6					2	1	1	-				✓ 6053060
10 Trip Blank (MeOH) (1)					2	1	1	-				✓ 6053061

RELINQUISHED	RECEIVED	RELINQUISHED	RECEIVED
<i>[Signature]</i>	<i>[Signature]</i> 5/20/96	<i>[Signature]</i> 20/96	<i>[Signature]</i> 20/96
RELINQUISHED	RECEIVED	RELINQUISHED	RECEIVED
	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i> 5/20/96 1530

JG95619B