

11/24/98  
Jb/mc/ll

Ozaukee - SED

February 5, 1993  
(CBG120783)

**RECEIVED**

FEB 8 1993

**BUREAU OF SOLID &  
HAZARDOUS WASTE MANAGEMENT**

Mr. Robert Dreblow  
City of Cedarburg  
Post Office Box 49  
W63 N645 Washington Avenue  
Cedarburg, Wisconsin 53012

RE: Underground Storage Tank Closure Assessment, Emergency Operations Center, W61 N607 Mequon Street, Cedarburg, Wisconsin

Dear Mr. Dreblow:

Northern Environmental Technologies, Incorporated (Northern Environmental) completed an underground storage tank (UST) closure assessment on a 1000-gallon unleaded gasoline UST (Wisconsin Department of Industry, Labor, and Human Relations [WDILHR] tank registration #45130-0051) removed from the Emergency Operations Center (EOC), W61 N607 Mequon Avenue, Cedarburg, Wisconsin. The site is referred to as "the Property" in the remainder of this report. The Property is located in the northeast quarter of the southeast quarter of Section 27, Township 10 North, Range 21 East in Ozaukee County, Wisconsin (latitude 43 degrees, 8 minutes, 22 seconds north, longitude 87 degrees, 9 minutes, 40 seconds west) (Figure 1). The UST closure assessment conforms to WDILHR UST closure assessment requirements (Reference 1). This report describes the methods used to complete the closure assessment, presents the findings, and describes the significance of these findings.

**METHODS OF INVESTIGATION**

The purpose of a UST closure assessment is to determine if stored product has been released into surrounding soil and/or ground water. Several investigative methods were employed to assess the potential presence of petroleum compounds in soil and/or ground-water in the vicinity of the former UST. These methods are described in more detail below. Photographs documenting field activities are available upon request from Northern Environmental.

**Observation and Inspection of UST System Removal**

Northern Environmental was retained by the City of Cedarburg to observe removal and complete a closure assessment for a 1000-gallon unleaded gasoline UST located near the west side of the EOC. Figure 2 shows the Property layout and the former location of the UST. The UST was used to store unleaded gasoline for use in the Emergency Government stand-by generator at

WBA mg 3/16/93

the EOC. The City of Cedarburg contracted Petroleum Equipment, Incorporated (PEI) (3950 West Douglas Avenue, Milwaukee, Wisconsin) to remove the UST in accordance with applicable regulations. The UST was removed on November 24, 1992. Weather conditions during removal consisted of overcast skies, intermittent precipitation, and temperatures between 40 and 45 degrees Fahrenheit. A Northern Environmental hydrogeologist, certified in the State of Wisconsin as a site assessor, was present to conduct the UST closure assessment. Site assessor certification is presented in Attachment A. Mr. Rodger Rahn from the City of Cedarburg Fire Department was also present to observe the UST removal. PEI subcontracted Central Tank Service, Incorporated (CTS) (1904 South 71st Street, West Allis, Wisconsin) to remove residual sludge, clean, and dispose of the UST and sludge in accordance with WDNR and WDILHR requirements.

Due to access restrictions which prohibited the use of heavy equipment, CTS personnel manually removed overlying soil, exposing the top one-third of the UST. The UST was then ventilated and monitored by CTS personnel until less than 10 percent of the lower explosive limit (LEL) for gasoline was achieved in the UST interior. CTS cut an access hole into the top of the tank and cleaned the UST in place by physically removing all residual contents and applying an absorbent material to the tank walls. The tank sludge and cleaning residue were temporarily stored on-site in 55-gallon drums pending proper disposal. The UST was then dismantled in the excavation and disposed by CTS. The UST sludge was subsequently collected and disposed by Milwaukee Solvents, Incorporated. UST sludge disposal receipts are included in Attachment B.

Upon removal, the UST system was inspected for potential signs of leakage. The exterior of the UST and associated piping was inspected for corrosion, physical damage, loose fittings, and perforations. An updated WDILHR Underground Petroleum Product Tank Inventory form reflecting closure of the UST was submitted to the WDILHR. A copy of the amended UST inventory form is included in Attachment C.

#### Soil Screening, Sampling, and Analysis

During UST removal, a Northern Environmental hydrogeologist examined in-place and excavated soil for the presence of released gasoline. Soils surrounding the UST were sampled with a stainless steel trowel and field screened for the presence of volatile and semi-volatile organic compounds such as those found in petroleum fuels. Field screening included observation of soil odor and appearance, and photoionization detector (PID) field headspace analysis. PID headspace analysis consisted of collecting a representative soil sample in a 16-ounce glass jar, sealing the jar with aluminum foil and a threaded metal collar, and storing the sample in a warm (at least 60°F) location for at least one-half hour to allow organic compounds to volatilize. The aluminum foil was then carefully punctured with the PID probe extension, and the highest stable reading occurring within 10 to 20 seconds was recorded in instrument units as isobutylene (iui). The PID utilized was a Thermo Environmental Instruments Model 580A Organic Vapor Monitor (OVM) outfitted with a 10.6 eV lamp calibrated daily for direct response to isobutylene. The OVM was field calibrated daily with 251 parts per million (ppm) isobutylene. Sampling tools were cleaned in an Alconox detergent solution and double rinsed with potable water between sampling locations.

No evidence of a release was detected during UST removal or soil field screening. Consequently, a standard UST closure assessment was performed. The WDILHR guidelines for UST closure assessments require that samples be collected for laboratory analysis of gasoline range organics (GRO) from under each end of the tank, for every 20 feet of product piping, and from beneath the fill pipe if located remote from the UST (Reference 1). Accordingly, samples were collected from native soils approximately 1.0 feet below the bottom of each end of the UST (PPS-001 and PPS-002) and one foot beneath the dispenser piping (PPS-003). Laboratory samples were not required from beneath the fill piping as it was located immediately above the USTs. The soil samples submitted for laboratory analysis were preserved in methanol, cooled to 4°C, and submitted to a WDNR certified analytical laboratory (U.S. Oil, Incorporated [U.S. Oil] Analytical Laboratory, Combined Locks, Wisconsin) for analysis of GRO using the WDNR-Modified Method (Reference 2). Soil sampling locations are illustrated on Figure 2.

## **SUMMARY OF FINDINGS**

### **UST System History, Design, and Condition**

The UST was 1000-gallon capacity measuring nine feet in length and four feet in diameter. The former locations of the UST, vent pipe, and dispenser pipe are shown on Figure 2. The UST was installed in 1970 and was used to store unleaded gasoline for the stand-by generator at the EOC until closure (Reference 3). The UST was constructed of welded steel plates with an asphaltum coating. Fill and vent piping were constructed of bare steel with threaded fittings. Gasoline was dispensed through a suction system consisting of dual copper tubing (0.5 inch) which was completely contained in 1.5 inch diameter steel piping leading to the EOC generator. The fill pipe was located immediately above the UST. The backfill surrounding the UST was predominantly sand. The UST and associated piping were in good condition with no apparent holes. Only minor surficial corrosion and pitting was observed on the exterior surface of the UST and piping.

### **Soil Examination and Analysis**

Soil samples collected from the walls and floors of the UST excavation did not contain detectable concentrations of gasoline. No stained soils, gasoline-type odors, or elevated PID responses were detected in any samples. Soil samples did not contain GRO above laboratory method detection limits (5 ppm). Field screening results and laboratory analyses are summarized on Table 1. Copies of the laboratory report and the chain-of-custody record are included in Attachment D. The UST excavation was immediately backfilled, compacted, and leveled to grade with the excavated soil and additional clean gravel fill as necessary.

### **Regulatory Requirements**

The WDNR commonly uses 10 ppm of petroleum compounds as a guideline above which soils are considered "contaminated" (Reference 4). This guideline was originally developed to regulate the management of spills. The 10 ppm concentration represented the practical limit of detection for VOCs in soil. This clean up guideline was subsequently extrapolated to cover management of petroleum affected soil generated in leaking UST cases. Concentrations of GRO were below the method detection limit of 5.0 ppm in all soil samples. Consequently, no further action is necessary at the Property.

## **CONCLUSIONS AND RECOMMENDATIONS**

Based on the information obtained during the UST closure assessment, gasoline was not released from this UST. Therefore, no further investigative or remedial work is necessary and the City of Cedarburg requests a clean closure for this UST system.

The results of this study are based upon professional interpretation of the information available to Northern Environmental given the time and budget constraints of this project. Northern Environmental does not warrant that this report represents an exhaustive study of all possible concerns at the Property. The items investigated as part of this study do represent the most likely sources of environmental concern associated with the described UST system, and are consequently believed to adequately address the needs of the client at the present time.

We trust this information meets your needs. Please feel free to contact us if you have any questions or comments.

Sincerely,  
**Northern Environmental  
Technologies, Incorporated**



John J. Lund  
Hydrogeologist I



Gary S. Graham  
Project Manager



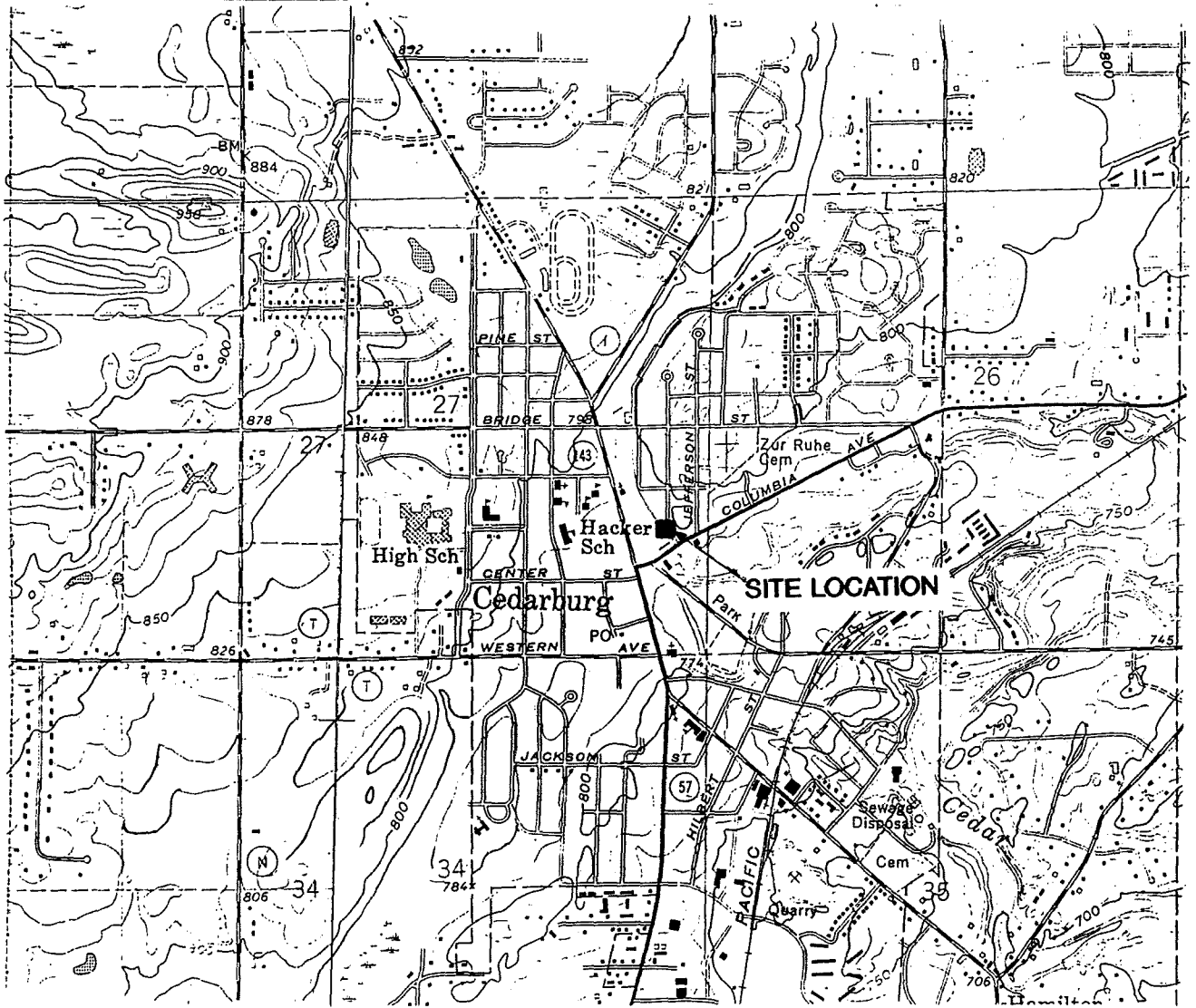
Dale J. Buser, P.E.  
Principal Hydrogeologist

JJL/dsy

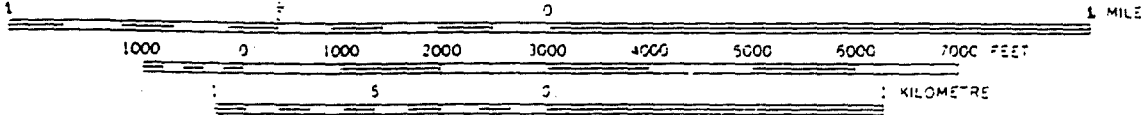
cc: Mr. Brad Wolbert (WDNR)  
WDILHR

## REFERENCES

- 1) s. ILHR 10, Wisconsin Administrative Code, *Flammable and Combustible Liquids Code*, April, 1991.
- 2) Wisconsin Department of Natural Resources, *Leaking Underground Storage Tank Analytical Guidance*, April 1992.
- 3) Conversation: R. Rahn (Cedarburg Fire Department) with John Lund (Northern Environmental), November 10, 1992.
- 4) Letter: P. Didier (WDNR) to District Directors (WDNR), *Practices and Standards for the Management of VOC-Contaminated Soils*, April 18, 1986.



SCALE 1:24,000



CONTOUR INTERVAL 10 FEET  
NATIONAL GEODETTIC VERTICAL DATUM OF 1929



N

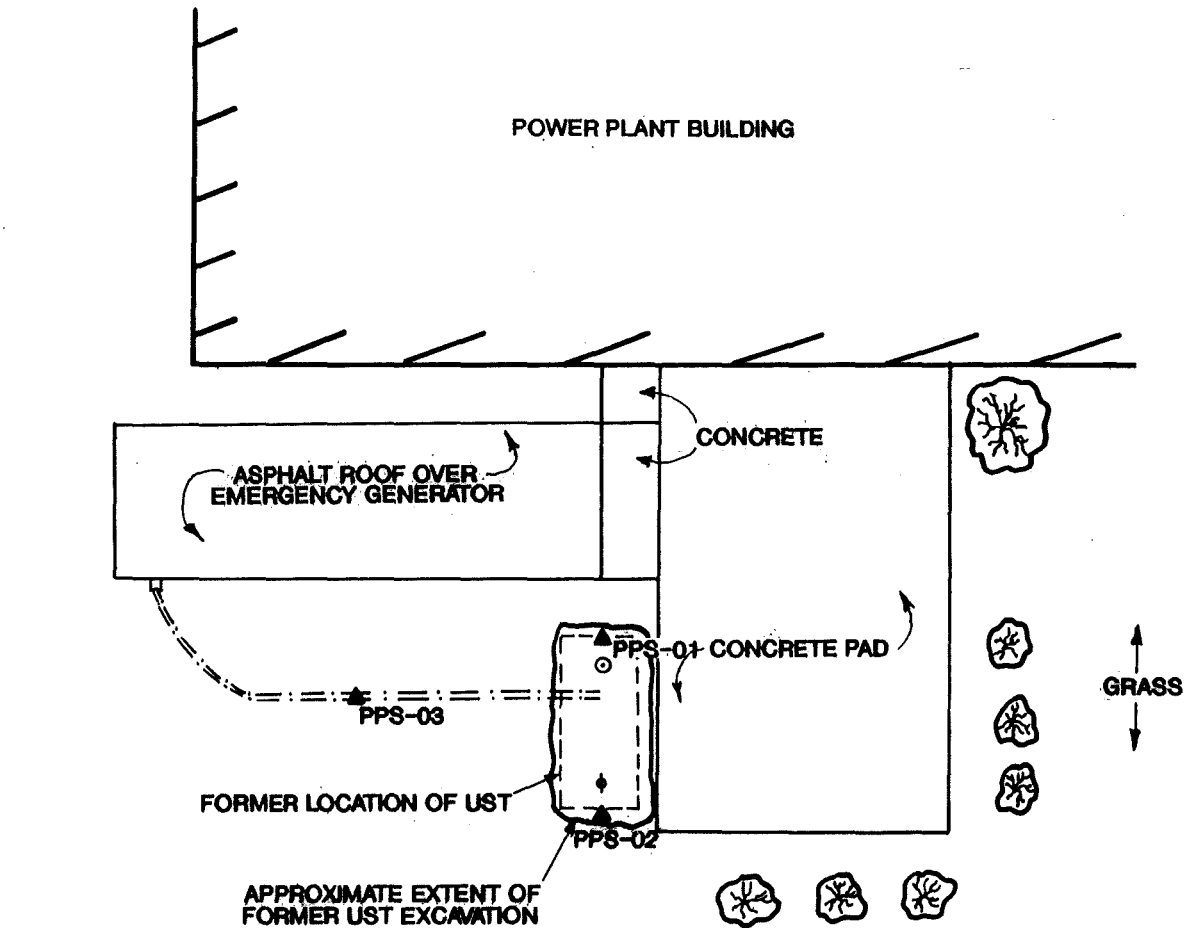


QUADRANGLE LOCATION

BASE MAP SOURCE: USGS CEDARBERG AND FIVE CORNERS, WI 7.5 MIN QUADRANGLE

REV	PROJECT: <b>CBG120783</b>	DATE: <b>2/5/93</b>	<b>EMERGENCY OPERATIONS CENTER CITY OF CEDARBURG</b>
	THIS DRAWING AND ALL INFORMATION CONTAINED THEREON IS THE PROPERTY OF NORTHERN ENVIRONMENTAL INCORPORATED AND SHALL NOT BE COPIED OR USED EXCEPT FOR THE PURPOSE FOR WHICH IT IS EXPRESSLY FURNISHED THE DRAWING AND ANY COPIES THEREOF SHALL BE RETURNED TO THE OWNER ON DEMAND		
<b>▲ Northern Environmental</b> Hydrologists • Engineers • Geologists			<b>SITE LOCATION AND LOCAL TOPOGRAPHY</b>

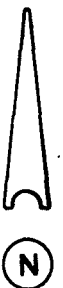
FIGURE 1



**EXPLANATION**

- FILLER PIPING
- ⋮ FORMER FEED AND RETURN PIPING
- ◇ VENT PIPING
- ▲ SAMPLE LOCATION
- ▲ PPS-02
- 🌳 TREE

**SCALE**



REV.	PROJECT: <b>CBG120783</b>	DATE: <b>2/5/93</b>	<b>EMERGENCY OPERATIONS CENTER CITY OF CEDARBURG</b>
	THIS DRAWING AND ALL INFORMATION CONTAINED THEREON IS THE PROPERTY OF NORTHERN ENVIRONMENTAL INCORPORATED AND SHALL NOT BE COPIED OR USED EXCEPT FOR THE PURPOSE FOR WHICH IT IS EXPRESSLY FURNISHED. THE DRAWING AND ANY COPIES THEREOF SHALL BE RETURNED TO THE OWNER ON DEMAND.		
<b>▲ Northern Environmental</b> <i>Hydrologists • Engineers • Geologists</i>			<b>SITE LAYOUT AND SAMPLE LOCATIONS</b>

**FIGURE 2**

**Table 1 Summary of Field and Laboratory Analysis, W61 N617 Mequon Street, Cedarburg, Wisconsin**

Sample Label	Depth (feet)	Date Collected	PID Headspace Analysis			Laboratory Analyses	Sample Odor	Sample Location	Sample Description
			Time Collected	Time Analyzed	PID Response (IUI)	GRO (ppm)			
PPS-01	6.5	11/24/92	1200	1530	0	ND	None	1' Below north end of UST	Yellowish brown (10 yr 5/4) silty clay
PPS-02	6.5	11/24/92	1300	1531	0	ND	None	1' Below south end of UST	Yellowish Brown (10 yr 5/4) silty clay
PPS-03	3.8	11/24/92	1340	1533	1	ND	None	1' Below dispenser piping	Dark brown (7.5 yr 3/2) sandy clay, some coarse sand

**NOTE:**

*IUI* = Instrument units as Isobutylene

*ppm* = parts per million

*ND* = Not Detected

CBG120783.Rpt5Tb1 Task 3.0

February 5, 1993



**ATTACHMENT A**  
**SITE ASSESSOR CERTIFICATION FOR THE**  
**STATE OF WISCONSIN**

# *The State of Wisconsin*

DEPARTMENT OF INDUSTRY, LABOR AND HUMAN RELATIONS  
SAFETY & BUILDINGS DIVISION

## **CERTIFICATION**

The person whose name appears on this certificate has complied with Administrative Rule ILHR 10 and is authorized to engage in the speciality as identified below.

Speciality:	Expiration Date:	Cert. No.:
SA	5/1/94	04193

JOHN J LUND  
2101 CHATEAU CT #111  
GRAFTON WI 53024

**ATTACHMENT B**  
**UST SLUDGE DISPOSAL RECEIPTS**



STATE OF WISCONSIN  
Chapter 144, Wis. Stats.  
Form 4400-66P

RECEIVED  
JAN 26 1993

State of Wisconsin  
Department of Natural Resources  
Bureau of Solid Waste Mgt.  
Box 8094  
Madison, Wisconsin 53708

FOR DNR USE ONLY

Please print or type. Form designed for use on elite (12-pitch) typewriter.

Form Approved. OMB No. 2050-0039. Expires 9-30-92

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. WID 988633012		Manifest Document No. 100024		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.					
3. Generator's Name and Mailing Address CITY OF CEDARBURG 461 N617 MEQUON AVE CEDARBURG WI 53012						A. State Manifest Document Number WI J327686							
4. Generator's Phone (414) 375-7610						B. State Generator's ID							
5. Transporter 1 Company Name MILWAUKEE SOLVENTS & CHEMICALS			6. US EPA ID Number WID 023250192			C. State Transporter's ID							
7. Transporter 2 Company Name			8. US EPA ID Number			D. Transporter's Phone							
9. Designated Facility Name and Site Address MILWAUKEE SOLVENTS & CHEMICALS 599 W4476 BOBOLINK AVE. MENDOTA FALLS, WI 53051			10. US EPA ID Number WID 023250192			E. State Transporter's ID							
						F. Transporter's Phone							
						G. State Facility's ID							
						H. Facility's Phone (414) 375-0590							
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)						12. Containers		13. Total Quantity		14. Unit Wt/Vol		15. I Waste No.	
a. WASTE GASOLINE FLAMMABLE LIQUID UN1203 Drum						No. Type		50 C		2001			
b.													
c.													
d.													
J. Additional Descriptions for Materials Listed Above FOCUS F0031						K. Handling Codes for Wastes Listed Above							
15. Special Handling Instructions and Additional Information EMERG 27 EMER RESP PH # (414) 375-7610						A) UN# 121920							
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations and according to the requirements of the Wisconsin Department of Natural Resources. If I am a large quantity generator, I also certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment;													
OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.													
Printed/Typed Name & Position Title DON CARDINAL FOCUS						Signature Don Cardinal		Date 1/14/93					
17. TRANSPORTER 1 Acknowledgement of Receipt of Materials						Signature John Dietrich		Date 1/14/93					
Printed/Typed Name & Position Title John Dietrich						Signature John Dietrich		Date 1/14/93					
18. TRANSPORTER 2 Acknowledgement of Receipt of Materials						Signature		Date					
Printed/Typed Name & Position Title						Signature		Date					
19. Discrepancy Indication Space													
20. FACILITY OWNER OR OPERATOR: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.													
Printed/Typed Name & Position Title LARRY DIETRICH						Signature Larry Dietrich		Date 01/14/93					

**ATTACHMENT C**

**UNDERGROUND PETROLEUM PRODUCT TANK INVENTORY FORM  
(FORM SBD-7437)**

# PETROLEUM PRODUCT TANK INVENTORY

**For Office Use Only:**  
Tank ID #

Information Required By Sec. 102.142, 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 (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. Have you previously registered this tank by submitting a form?  YES  NO If yes, are you correcting/updating information only?  Yes  No

This registration applies to a tank that is (check one):

- 1A.  In Use or 1B.  Newly Installed
- 2.  Abandoned With Product
- 3.  Abandoned No Product (empty) or With Water
- 4.  Closed - Tank Removed
- 6.  Closed - Filled With Inert Material
- 7.  Out of Service - Provide Date: \_\_\_\_\_
- 8.  Changed Ownership (Indicate new owner below)

Fire Department Providing Fire Coverage Where Tank Located:

CEDARBURG

### A. IDENTIFICATION: (Please Print)

1. Tank Site Name: OLD POWER PLANT Site Address: W61 N617 MEDWON AVE Site Telephone No.: ( ) NA  
 City CEDARBURG  Village  Town of: State: WI Zip Code: 53012 County: OSHAUKEE

2. Owner Name (mail sent here unless indicated otherwise in #3 below): CITY OF CEDARBURG % BOB DREBLOW Owner Mailing Address (mail sent here unless indicated otherwise in #3): P.O. BOX 49  
 City CEDARBURG  Village  Town of: State: WI Zip Code: 53012 County: OSHAUKEE

3. Alternate Mailing Name If Different Than #2: \_\_\_\_\_ Alternate Mailing Street Address If Different From #2: \_\_\_\_\_  
 City  Village  Town of: State: Zip Code: County:

4. Tank Age (date installed, if known: or years old): 8/12/71 5. Tank Capacity (gallons): 6000 6. 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): \_\_\_\_\_

### C. TANK CONSTRUCTION:

- 1.  Bare Steel
- 2.  Cathodically Protected and Coated Steel (A.  Sacrificial Anodes or B.  Impressed Current)
- 3.  Coated Steel
- 4.  Fiberglass
- 5.  Other (specify): \_\_\_\_\_
- 6.  Relined - 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 at tightness testing 5.  Interstitial monitoring 6.  Not required at present 7.  Manual Tank Gauging (only for tanks of 1,000 gallons or less)

### D. PIPING CONSTRUCTION

- 1.  Bare Steel
- 2.  Cathodically Protected and Coated or Wrapped Steel (A.  Sacrificial Anodes or B.  Impressed Current)
- 3.  Coated Steel
- 4.  Fiberglass
- 5.  Other (specify): COPPER
- 9.  Unknown

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

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

Approval: 1.  Nat'l Std. 2.  UL 3.  Other: \_\_\_\_\_ 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 Closed, Give Date (mo/day/yr): 11/24/92 Has a site assessment been completed? (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): \_\_\_\_\_

Name of Owner or Operator (please print): ROBERT DREBLOW Indicate Whether:  Owner or  Operator

Signature of Owner or Operator: Robert R. Dreblov Date Signed: 12-2-92

**ATTACHMENT D**

**LABORATORY REPORT AND CHAIN-OF-CUSTODY FORMS**



**Analytical Laboratory**

425 S. Washington St. Combined Locks, WI 54113  
Phone 414-735-8298

WI DNR Certified Lab #445027660

REPORT TO: GARY GRAHAM  
556-036 PPS01 1 1585896 02301  
NORTHERN ENVIRONMENTAL  
  
1214 W VENTURE CRT  
MEQUON WI 53092

REPORT DATE 12/02/92  
SAMPLE DATE 11/24/92  
SAMPLE ID PPS-01  
SAMPLE DESC CEDARBURG

TEST DESCRIPTION

RESULTS

DATE SAMPLE RECEIVED  
PROJECT NUMBER  
SAMPLE TYPE

11/25/92  
CBG120783  
SOIL

TOTAL SOLIDS %  
DATE ANALYZED

83.2  
11/25/92

MODIFIED GRO WDNR APR 92  
DATE ANALYZED  
GASOLINE (GRO) MG/KG  
MDL MG/KG

11/30/92  
ND  
5.0

ND = NOT DETECTED

AUTHORIZED SIGNATURE

A handwritten signature in black ink, appearing to read 'Jim Sturman', is written over the 'AUTHORIZED SIGNATURE' line.

COMMENTS:





**Analytical Laboratory**

425 S. Washington St. Combined Locks, WI 54113  
Phone 414-735-8298

WI DNR Certified Lab #445027660

REPORT TO: GARY GRAHAM  
556-036 PPS02 1 1585897 02301  
NORTHERN ENVIRONMENTAL  
  
1214 W VENTURE CRT  
MEQUON WI 53092

REPORT DATE 12/02/92  
SAMPLE DATE 11/24/92  
SAMPLE ID PPS-02  
SAMPLE DESC CEDARBURG

TEST DESCRIPTION

RESULTS

DATE SAMPLE RECEIVED  
PROJECT NUMBER  
SAMPLE TYPE

11/25/92  
CBG120783  
SOIL

TOTAL SOLIDS %  
DATE ANALYZED

85.3  
11/25/92

MODIFIED GRO WDNR APR 92  
DATE ANALYZED  
GASOLINE (GRO) MG/KG  
MDL MG/KG

11/30/92  
ND  
5.0

ND = NOT DETECTED

AUTHORIZED SIGNATURE

A handwritten signature in cursive script, appearing to read "J. M. Stevens", is written over a horizontal line.

COMMENTS:



**Analytical Laboratory**

425 S. Washington St. Combined Locks, WI 54113  
Phone 414-735-8298

WI DNR Certified Lab #445027660

REPORT TO: GARY GRAHAM  
556-036 PPS03 1 1585898 02301  
NORTHERN ENVIRONMENTAL

1214 W VENTURE CRT  
MEQUON WI 53092

REPORT DATE 12/02/92  
SAMPLE DATE 11/24/92  
SAMPLE ID PPS-03  
SAMPLE DESC CEDARBURG

TEST DESCRIPTION

RESULTS

DATE SAMPLE RECEIVED  
PROJECT NUMBER  
SAMPLE TYPE

11/25/92  
CBG120783  
SOIL

TOTAL SOLIDS %  
DATE ANALYZED

84.4  
11/25/92

MODIFIED GRO WDNR APR 92  
DATE ANALYZED  
GASOLINE (GRO) MG/KG  
MDL MG/KG

11/30/92  
ND  
5.0

ND = NOT DETECTED

AUTHORIZED SIGNATURE

COMMENTS:

# Northern Environmental

1214 West Venture Court  
Mequon, WI 53092  
414-241-3133  
FAX 414-241-8222

372 West County Road D  
New Brighton, MN 55112  
612-635-9100  
FAX 612-635-0643

a subsidiary of Bonestroo, Rosene, Anderlik and Associates, Inc.

## CHAIN OF CUSTODY RECORD REQUEST FOR ANALYSIS

No 0537

Project No: <u>CBG 120783</u> Task No: <u>2</u>		Sampling Date(s): <u>11/24/92</u>		Sample Integrity - To be completed by receiving lab Seal intact upon receipt <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No															
Project Location: (city) <u>CEDARBURG</u>		Shipment Date: <u>11/25/92</u>		Method of Shipment <u>Courier</u> <span style="float:right">ON <u>LO</u></span>															
Project Manager: <u>GARY S. GRATHAM</u>				Contents Temperature _____ °C Refrigerator No: _____															
Sampler (name): <u>JOHN J. LUND</u>		Hazard Identification		<b>ANALYSES REQUESTED</b>  GRO (WDA/2 MOD. METH.) TRPH (EPA Method 9073) Oil & Grease (EPA Method 413.1) BETX (EPA Method 8020) PVOG (EPA Method 8020) VOC (EPA Method 8021) PAH (EPA Method ) Pb (EPA Method )															
Sampler (signature): <u>[Signature]</u>		<input type="checkbox"/> Reactive Non Hazardous <input type="checkbox"/> <input type="checkbox"/> Toxic Flammable <input type="checkbox"/> <input type="checkbox"/> Infectious Skin Irritant <input type="checkbox"/> <input type="checkbox"/> Other _____																	
Laboratory: <u>US OIL</u>		TURNAROUND TIME REQUIRED																	
Wisconsin DNR Certification No: <u>445027660</u>		<input checked="" type="checkbox"/> Normal Rush <input type="checkbox"/>																	
Laboratory Contact: <u>J. STEWART</u>		Date Needed <u>4 Dec 92</u>																	
Reports to be Sent To: <u>GARY GRATHAM</u>																			
Lab ID. No.	Sample No.	Collection		No. of Containers, Size and Type	Description			Preservative	DRO	GRO (WDA/2 MOD. METH.)	TRPH (EPA Method 9073)	Oil & Grease (EPA Method 413.1)	BETX (EPA Method 8020)	PVOG (EPA Method 8020)	VOC (EPA Method 8021)	PAH (EPA Method )	Pb (EPA Method )	Other Analysis	
		Date	Time		Water	Soil	Other												
<u>116</u> 1585896	<u>PPS-01</u>	<u>11/24</u>	<u>1200</u>	<u>1 60ml; 1 9oz</u>		<u>X</u>		<u>ICE, MeOH</u>		<u>X</u>									
<u>117</u> 1585897	<u>PPS-02</u>	<u>11/24</u>	<u>1330</u>	<u>1 60ml; 1 4oz</u>		<u>X</u>		<u>ICE, MeOH</u>		<u>X</u>									
<u>118</u> 1585898	<u>PPS-03</u>	<u>11/24</u>	<u>1340</u>	<u>1 60ml; 1 4oz</u>		<u>X</u>		<u>ICE, MeOH</u>		<u>X</u>									
Lab Batch No:		Price Quote No:		Comments:															
Packed By: <u>J. LUND</u>		Sealed For		Shipping By: <u>(J. LUND)</u>															
Relinquished By: <u>[Signature]</u>		Date: <u>11/25/92</u>		Relinquished By:				Date:				Relinquished By:				Date:			
Company: <u>Northern Env.</u>		Time: <u>2:00</u>		Company:				Time:				Company:				Time:			
Received By: <u>[Signature]</u>		Date: <u>11/25/92</u>		Received By: <u>Cheri Blue</u>				Date: <u>11/25/92</u>				Received By:				Date:			
Company: <u>US OIL</u>		Time: <u>4:00pm</u>		Company: <u>US OIL</u>				Time: <u>4:00pm</u>				Company:				Time:			