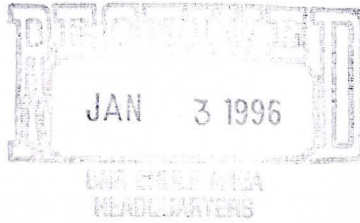




MID-STATE ASSOCIATES, INC.



1835 N. Stevens Street
P.O. Box 1026
Rhineland, WI 54501
715-362-3244
FAX: 715-362-4116

Engineers • Architects • Planners • Surveyors • Scientists

December 29, 1995

Mr. Chris Saari
Wisconsin Department of Natural Resources
P.O. Box 125
Brule, WI 54820

Re: Quearm Oil Company, Ashland, WI

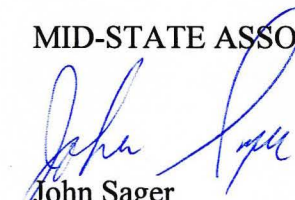
Dear Mr. Saari:

On behalf of Mr. Fred Gygi, Mid-State Associates, Inc. is submitting the subject site's Underground Storage Tank Closure Assessment Report. The site is located at 105 W. 6th Street, Ashland, Wisconsin.

If you have any questions regarding this submittal, please call me at the above number.

Sincerely,

MID-STATE ASSOCIATES, INC.


John Sager
Project Hydrogeologist

JS:ab

Enc.

cc: Mr. Fred Gygi, Ironwood, MI

Underground Storage Tank Closure Assessment Report

Quearm Oil Company
105 W. 6th Street
Ashland, Wisconsin 54806

MSA Project No. 212360

Prepared For:
Quearm Oil Company
Ashland, WI 54806

Prepared By:
Mid-State Associates, Inc.
Rhineland, WI 54501



Underground Storage Tank Closure Assessment Report

Quearm Oil Company
105 W. 6th Street
Ashland, Wisconsin 54806

MSA Project No. 212360

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CONCLUSIONS AND RECOMMENDATIONS	7

LIST OF ILLUSTRATIONS

Table 1	Soil Field Screening Results
Figure 1	Site Location Map
Figure 2	Site Layout

APPENDICES

Appendix A	Figures
Appendix B	Checklist for Underground Tank Closure
Appendix C	Soil Sampling and Field Screening Procedures

INTRODUCTION

Mid-State Associates, Inc. (MSA) performed an underground storage tank (UST) closure assessment on November 14, 1995, at the Quearm Oil Company, located at 105 W. 6th Street, Ashland, Wisconsin. The property is located in the SE1/4, SW1/4, SW1/4, Section 33, T48N, R4W, City of Ashland, Ashland County, Wisconsin. Figure 1 indicates the site location. The purpose of the closure assessment was to determine if petroleum products stored on the site had been released into the environment, and if additional investigation was needed to determine the extent and degree of the contamination. This report presents the results of the closure assessment.

SCOPE OF SERVICES

MSA's scope of services included collecting background information, making field observations, collecting and analyzing soil samples, and subsequent report preparation. The site work was performed in accordance with Wisconsin Department of Industry, Labor, and Human Relations and Wisconsin Department of Natural Resources (WDNR) guidance documents.

PROJECT CONCERNED PARTIES

Responsible Party: Quearm Oil Company 105 W. 6th Street Ashland, WI 54806	Tank Excavator: Advanced Tank Service, Inc. Scott Lau P.O. Box 1072 Eau Claire, WI 54702-1072 (715) 831-8484
Site Contact: Mr. Fred Gygi Gygi Heating Company 631 E. McLoed Avenue Ironwood, MI 49938 (906) 932-1179	DILHR Representative: Mr. Thomas Grahek Ashland Fire Department 300 Stuntz Avenue Ashland, WI 54806 (715) 682-7052
Tank Degassing/Cleaning: Advanced Tank Service, Inc. Scott Lau P.O. Box 1072 Eau Claire, WI 54702-1072 (715) 831-8484	Closure Assessment Firm: Mid-State Associates, Inc. Brian J. Hegge (Certificate #02843) 1835 N. Stevens Street, P.O. Box 1026 Rhinelander, WI 54501 (715) 362-3244
Tank Disposal: Toy's Scrap and Salvage Route 1 Eau Claire, WI 54703 (715) 834-6677	Sludge Disposal: Waste Research and Reclamation Co., Inc. 5200 Highway 93 Eau Claire, WI 54701 (715) 834-9624

SITE INFORMATION

UST Information

One 1,000 gallon leaded gasoline storage tank and one 1,000 gallon unleaded gasoline storage tank and associated piping were removed from the site on November 14, 1995. Two pump islands for USTs are located approximately 17 feet to the east and 20 feet southwest of the USTs. The vent pipes for the system were located approximately 4 feet west of the USTs adjacent to the main building. The pump dispensers had been previously removed from the site. Appendix B contains

the Underground Petroleum Product Tank Inventory Form and Checklist for Underground Tank Closure.

Description of Present Property Use

The site was formerly operated as a retail fuel sales facility. Seven above ground storage tanks (ASTs) are located on the western portion of the property. A site investigation was conducted in the area of the ASTs between August 1992 and May 1993 by Ayres and Associates, Inc. The USTs removed during these closure activities were used as part of the retail gasoline sales.

Underground Tanks Remaining On Site

A 300 gallon fuel oil UST remains on site in the area of the above ground storage tanks.

Previously Removed Tanks

According to DILHR records, one 550 gallon diesel fuel UST was removed from the site in 1988. The location of the UST and its condition upon removal is unknown at this time.

Previous Geotechnical Investigations

Ayres and Associates, Inc. conducted a subsurface investigation between August 1992 and May 1993 in the area of the ASTs to the west of the main building. The investigation did not include the UST locations discussed in this closure assessment.

Past System Leaks or Repairs

The closed USTs were installed in 1982. The delivery piping to the east island was fiberglass and the piping to the southwest island was steel. Although no information was available regarding tank upgrades, it appears that the tanks were connected to the existing system during an upgrade. There are no recorded leaks nor repairs on the removed tank facilities.

Tank Tightness Tests

Tightness tests are not known to have been conducted on the removed tank nor piping.

Other Tanks/Gas Stations Nearby

Seven above ground storage tanks are located to the west of the main building.

PROCEDURES

Tank Removal and Cleaning Procedures

The soil overburden was removed from the USTs and the explosive vapors in the tank were measured. The UST was then purged with carbon monoxide until the atmosphere was below 10 percent of the lower explosive limit (LEL). The UST vents, dispenser pipes, and fill pipes were also removed. The USTs were then removed from the excavation, placed on the ground, and blocked to prevent rolling.

After removal of the tanks from the excavation, the tank was then inspected for pitting, holes, or other obvious problem and none were detected. The LELs were then rechecked and holes were cut in the tanks to remove the remaining product into a Department of Transportation-approved, 50-gallon drum. The piping and pumps associated with the tanks were removed by the remover/cleaner during the closure. The tanks were cleaned on site, transported to, and scrapped at Toy's Scrap and Salvage, Route 1, Eau Claire, WI 54703.

Soil Sampling Methods and Procedures

Field exposed soil was obtained from the tank excavation using a shovel to bring soil to the surface. Field headspace measurements were conducted. Due to obvious petroleum odors, laboratory samples were not analyzed. Appendix C contains soil sampling and field screening procedures.

Sample Locations

One headspace sample was collected from approximately 4 feet below ground surface (bgs), from the sidewall of the excavation. Two headspace samples were also collected from beneath the product piping leading to the eastern pump island.

Equipment Cleaning Methods

The sampling equipment (nitrile gloves) used by MSA during the closure assessment were disposed after collecting the sample.

OBSERVATIONS

Soil Type

The soil profile in the tank bed was observed as follows:

0 to 7 feet bgs dense red clay

Bedrock

Bedrock was not encountered during the closure activities.

Groundwater

Water was observed within the UST excavation. This water is suspected either to be surface runoff trapped in the sand backfill surrounding the former USTs or water trapped in lenses of higher permeability soil within the clay.

Excavation Dimensions

The scale drawing (Figure 2) graphically shows the sample locations and excavation limits. The excavation was approximately 8 feet by 17 feet by 7 feet deep. The tank was 5 feet 4 inches in diameter and 6 feet long.

Tank Condition

Minor surface corrosion was noted on the tanks and piping. The tanks were in very good condition with no obvious holes.

Contamination Indicators

Petroleum odor and soil staining were noted in the soil.

Environmental Response Action

The soil excavated from, around, and above the tank was placed back into the excavation.

RESULTS

The field screening results from the closure assessment are summarized in Table 1. Soil samples were not analyzed for gasoline range organics due to the strong petroleum odor and headspace screening results.

TABLE 1
SOIL SCREENING RESULTS
Quearm Oil Company, Ashland, WI

Sample I.D.	Depth (ft)	PID Headspace Result
Stockpile from UST excavation	NA	4,000
Piping to eastern pump island	Fill 1 ft below pipe	930
Piping to eastern pump island	Clay 2 ft below pipe	282

NA - Not Applicable

NOTIFICATION TO DEPARTMENT OF NATURAL RESOURCES

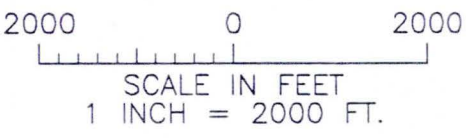
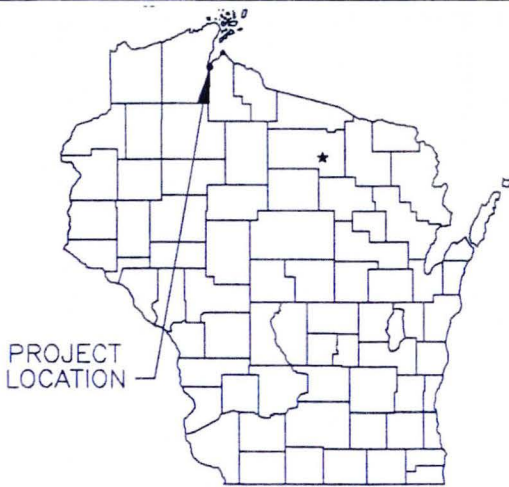
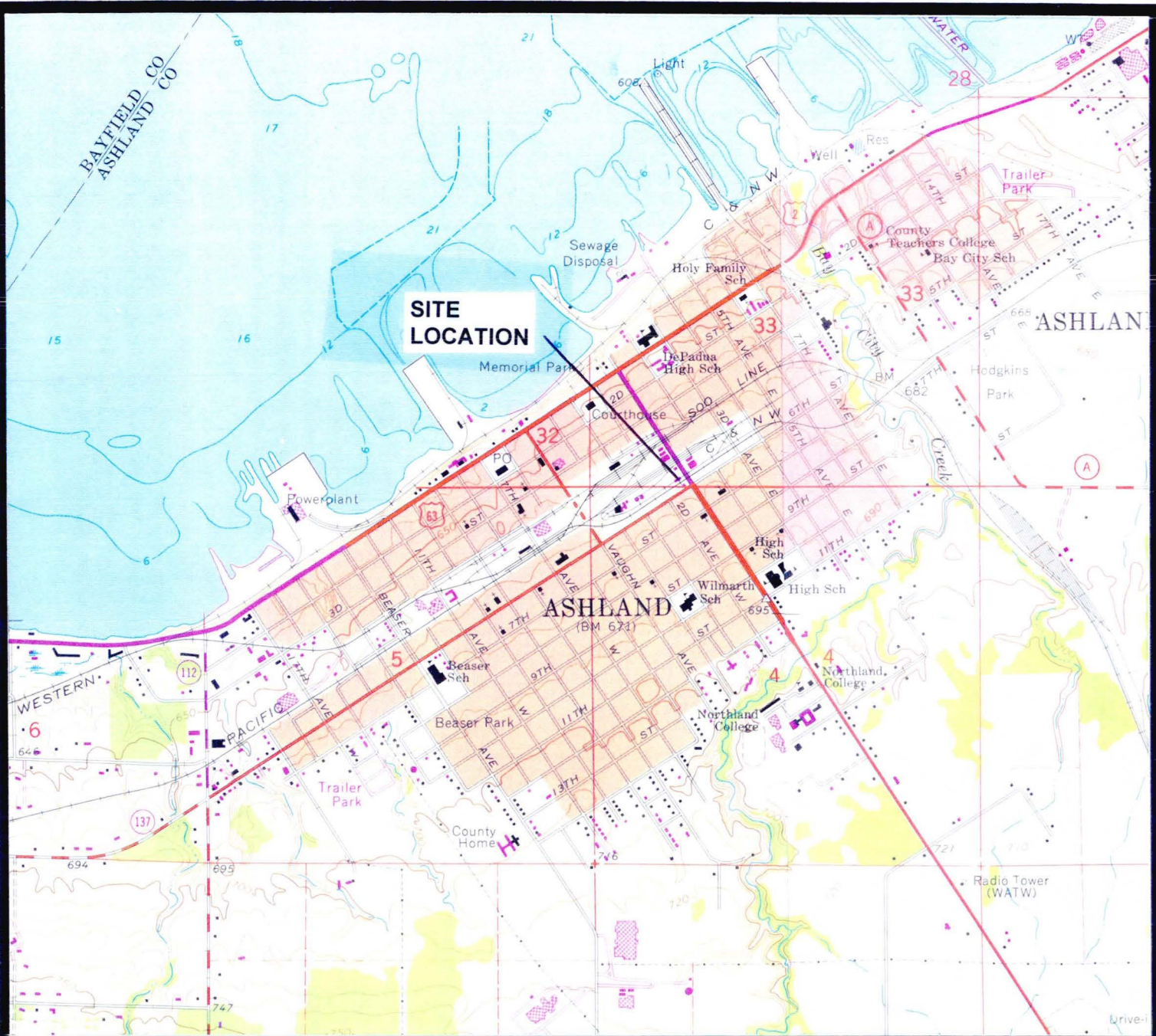
Based on the petroleum odors, soil staining, and headspace screening results, in accordance with the Wisconsin Spills Law, the WDNR was notified of the petroleum release. Mr. Chris Saari, WDNR Brule, Wisconsin, was notified of the release on November 14, 1995.

CONCLUSIONS AND RECOMMENDATIONS

The results of this closure assessment indicate that further environmental investigative work is required. Following regulatory guidelines, a copy of this report has been forwarded to the appropriate WDNR office for tank closures.

APPENDIX A

FIGURES



Ashland West & Ashland East Quadrangle
 Wisconsin-Ashland Co.
 7.5 Minute Series (Topographic)
 NW/4 Ashland 15' Quadrangle
 Contour Interval 10 Feet



FIGURE I
SITE LOCATION MAP
 QUEARM OIL COMPANY, ASHLAND, WI

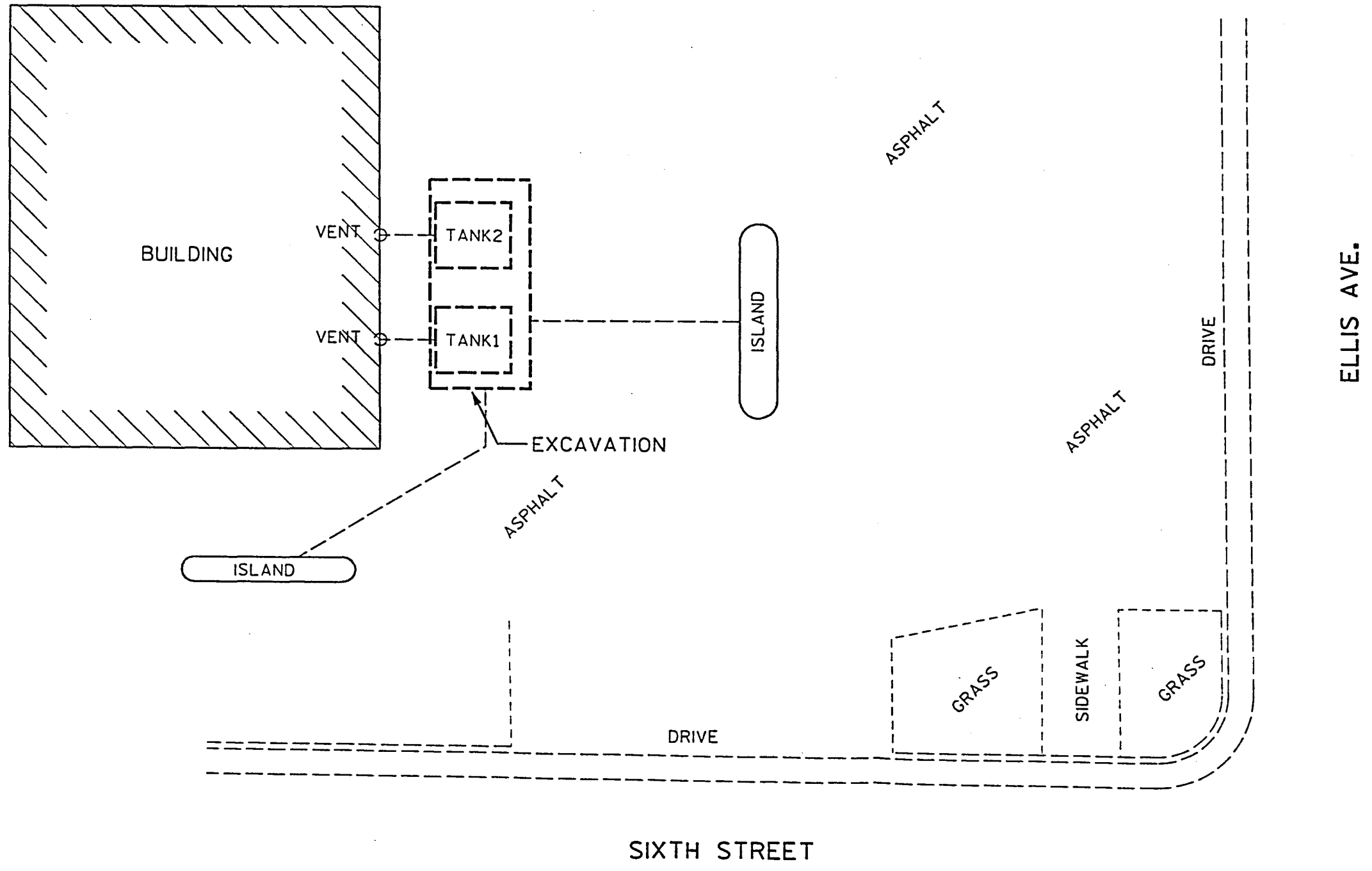


1535 N. Stevens
Rhineclander, Wisconsin
54501
715-362-3244

Engineers • Architects • Planners • Surveyors • Scientists
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LEGEND

- ==== CURB & GUTTER
- PIPING



10 0 10
SCALE IN FEET

FIGURE 2
SITE LAYOUT
QUEARM OIL CO.
ASLAND, WI

APPENDIX B

**CHECKLIST FOR UNDERGROUND TANK CLOSURE
UNDERGROUND STORAGE TANK INVENTORY FORMS**

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, 504 (b)(7)(m))

RECEIVED
NOV 17 1995
MID STATE ASSOCIATES

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

1. Site Name: Queen Oil 2. Owner Name: 6491 Heating

Site Street Address (not P.O. Box): 105 W. 6th St. Owner Street Address: 631 EAST McLeod Ave NOV 17 1995

City Village Town of: Ashland City Village Town of: Townwood State: WI Zip Code: 54806 ME 49938

State: WI Zip Code: 54806 County: Ashland County: Townwood Telephone No. (include area code): 906, 932 1179

3. Closure Company Name (Print): Advanced Tank Service, Inc. Closure Company Street Address: P.O. Box 1072

Closure Company Telephone No. (include area code): 715 931 8484 Closure Company City, State, Zip Code: Eau Claire, WI 54702-1072

4. Name of Company Performing Closure Assessment: Mid-State Associates Assessment Company Street Address, City, State, Zip Code: 1835 N. Stevens St. Burlington WI 54501

Telephone # (include area code): 715 362 3244 Certified Assessor Name (Print): BRIAN HEGGER Assessor Signature: [Signature] Assessor Certification No.: 02843

Tank ID #	Closure	Temp. Closure	Closure In Place	Tank Capacity	Contents *	Closure Assessment
020100132	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1000	03	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
020100137	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1000	02	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/> Y <input type="checkbox"/> N
	<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
	<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.

B. TEMPORARILY OUT OF SERVICE

Written inspector approval of temporary closure obtained, which is effective until (provide date) _____

1. Product Removed	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
a. Product lines drained into tank (or other container) and resulting liquid removed, AND	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
b. All product removed to bottom of suction line, OR	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
c. All product removed to within 1" of bottom.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
2. Fill pipe, gauge pipe, tank truck vapor recovery fittings, and vapor return lines capped.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
3. All product lines at the islands or pumps located elsewhere are removed and capped, OR	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
4. Dispensers/pumps left in place but locked and power disconnected.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
5. Vent lines left open.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
6. Inventory form filed indicating temporary closure.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>

C. CLOSURE BY REMOVAL

1. Product from piping drained into tank (or other container).	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
2. Piping disconnected from tank and removed.	<input checked="" 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 checked="" 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 checked="" 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 checked="" 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.			
6. Vent lines left connected until tanks purged.	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
7. Tank openings temporarily plugged so vapors exit through vent.	<input checked="" 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 checked="" type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
9. Tank removed from excavation after PURGING/INERTING; placed on level ground and blocked to prevent movement.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>
10. Tank cleaned before being removed from site.	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>

Remover Verified Inspector Verified NA

C. CLOSURE BY REMOVAL (continued)

- 11. Tank labeled in 2" high letters after removal but before being moved from site. Y N Y N NA
- NOTE: COMPLETE TANK LABELING SHOULD INCLUDE WARNING AGAINST REUSE; FORMER CONTENTS; VAPOR STATE; VAPOR FREEING TREATMENT; DATE.
- 12. Tank vent hole (1/8 th " in uppermost part of tank) installed prior to moving the tank from site. Y N Y N NA
- 13. Inventory form filed by owner with Safety and Buildings Division indicating closure by removal. Y N Y N NA
- 14. Site security is provided while the excavation is open. Y N Y N NA

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

COPY

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. Y N Y N NA
- 2. Do points of obvious contamination exist? Y N Y N NA
- 3. Are there strong odors in the soils? Y N Y N NA
- 4. Was a field screening instrument used to pre-screen soil sample locations? Y N Y N NA
- 5. Was a closure assessment omitted because of obvious contamination? Y N Y N NA
- 6. Was the DNR notified of suspected or obvious contamination? Y N Y N NA
- Agency, office and person contacted: CHRIS SAARL, BULK DNR
- 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 (CO₂ or N₂) 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

Scott Law Scott Law 04686 11/14/95
 Remover Name (print) Remover Signature Remover Certification No. Date Signed

I. INSPECTOR INFORMATION

Thomas ECAHAR Thomas ECAHAR 00316
 Inspector Name (print) Inspector Signature Inspector Certification No.
02011 ASH4040 715-682-7052 11-14-95
 FDID # For Location Where Inspection Performed Inspector Telephone Number Date Signed

UNDERGROUND
PETROLEUM PRODUCT
TANK INVENTORY

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

For Office Use Only:

Tank ID # D20100132

Information Required By Sec. 102.142, Wis. Stats.

COPY

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

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

1. <input type="checkbox"/> In Use or 1B. <input type="checkbox"/> Newly Installed	4. <input checked="" type="checkbox"/> Closed - Tank Removed	8. <input type="checkbox"/> Changed Ownership
2. <input type="checkbox"/> Abandoned With Product	6. <input type="checkbox"/> Closed - Filled With Inert Material	(Indicate new owner below)
3. <input type="checkbox"/> Abandoned No Product (empty) or With Water	7. <input type="checkbox"/> Out of Service - Provide Date: _____	

Fire Department Providing Fire Coverage Where Tank Located: Ashland

A. IDENTIFICATION: (Please Print)

1. Tank Site Name Queam Oil Site Address 105 W. 10th Street Site Telephone No. _____

City Ashland Village Town of: _____ State WI Zip Code 54806 County Ashland

2. Owner Name (mail sent here unless indicated otherwise in #3 below) Gygi Heating Owner Mailing Address (mail sent here unless indicated otherwise in #3) 631 East McLeod Ave

City Ironwood Village Town of: _____ State MI Zip Code 49938 County _____

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) _____ 5. Tank Capacity (gallons) 1000 6. Tank Manufacturer's Name (if known) _____

TYPE OF USER (check one):

1. <input checked="" type="checkbox"/> Gas Station	2. <input type="checkbox"/> Bulk Storage	3. <input type="checkbox"/> Utility	4. <input type="checkbox"/> Mercantile
5. <input type="checkbox"/> Industrial	6. <input type="checkbox"/> Government	7. <input type="checkbox"/> School	8. <input type="checkbox"/> Residential
9. <input type="checkbox"/> Agricultural	10. <input type="checkbox"/> Other (specify): _____		

TANK CONSTRUCTION:

1. <input type="checkbox"/> Bare Steel	2. <input type="checkbox"/> Cathodically Protected and Coated Steel (A. <input type="checkbox"/> Sacrificial Anodes or B. <input type="checkbox"/> Impressed Current)
3. <input checked="" type="checkbox"/> Coated Steel	4. <input type="checkbox"/> Fiberglass
6. <input type="checkbox"/> Relined - Date _____	7. <input type="checkbox"/> Steel - Fiberglass Reinforced Plastic Composite
	9. <input type="checkbox"/> 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 6. Not required at present 7. Manual Tank Gauging (only for tanks of 1,000 gallons or less)

PIPING CONSTRUCTION:

1. <input checked="" type="checkbox"/> Bare Steel	2. <input type="checkbox"/> Cathodically Protected and Coated or Wrapped Steel (A. <input type="checkbox"/> Sacrificial Anodes or B. <input type="checkbox"/> Impressed Current)	3. <input type="checkbox"/> Coated Steel
4. <input checked="" type="checkbox"/> Fiberglass	5. <input type="checkbox"/> Other (specify): _____	9. <input type="checkbox"/> 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

TANK CONTENTS

1. <input type="checkbox"/> Diesel	2. <input type="checkbox"/> Leaded	3. <input checked="" type="checkbox"/> Unleaded	4. <input type="checkbox"/> Fuel Oil
5. <input type="checkbox"/> Gasohol	6. <input type="checkbox"/> Other	7. <input type="checkbox"/> Empty	8. <input type="checkbox"/> Sand/Gravel/Slurry
9. <input type="checkbox"/> Unknown	10. <input type="checkbox"/> Premix	11. <input type="checkbox"/> Waste Oil	12. <input type="checkbox"/> Propane
13. <input type="checkbox"/> Chemical *		14. <input type="checkbox"/> Kerosene	15. <input type="checkbox"/> Aviation

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

Tank Closed, Give Date (mo/day/yr): 11/14/95 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:

Fire Department 2. DILHR 3. Other (identify) _____

Name of Owner or Operator (please print): Gygi Heating Indicate Whether: Owner or Operator

Signature of Owner or Operator: Scott Taylor, Owner Date Signed: 11/14/95

UNDERGROUND
PETROLEUM PRODUCT
TANK INVENTORY

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

For Office Use Only:

Tank ID # 020100137

Information Required By Sec. 102.142, Wis. Stats.

COPY

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

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

- 1. A. 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:

Ashland

A. IDENTIFICATION: (Please Print)

1. Tank Site Name Queen Oil Site Address 105 W. 63 Street Site Telephone No. _____

City Ashland Village Town of: _____ State WI Zip Code 54806 County Ashland

2. Owner Name (mail sent here unless indicated otherwise in #3 below) Cygn Heating Owner Mailing Address (mail sent here unless indicated otherwise in #3) 631 E. McLead Ave

City Howards Village Town of: _____ State WI Zip Code 49938 County _____

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) _____ 5. Tank Capacity (gallons) 1000 6. Tank Manufacturer's Name (if known) _____

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): _____

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 and tightness testing 5. Interstitial monitoring 6. Not required at present 7. Manual Tank Gauging (only for tanks of 1,000 gallons or less)

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): _____
- 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

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.

Tank Closed, Give Date (mo/day/yr): 11/14/95 Has a site assessment been completed? (see reverse side for details) Yes No

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

Name of Owner or Operator (please print): Cygn Heating Indicate Whether: Owner or Operator

Nature of Owner or Operator: Scott Jan for Owner Date Signed: 11/14/95

APPENDIX C

SOIL SAMPLING AND FIELD SCREENING PROCEDURES

SOIL SAMPLING AND PRESERVATION PROCEDURES (Rev. 8/94)

The following procedures conform to Wisconsin Department of Natural Resources' July 1993 *Leaking Underground Storage Tank (LUST) and Petroleum Analytical and Quality Assurance Guidance*, and *Release News*, Vol. 4, No. 3, July 1994.

I. For soils sampled for:

- Percent Solids
- Lead
- Cadmium
- Polynuclear Aromatic Hydrocarbons (PAHs)
- Sieve Analysis
- Bioremediation
- Polychlorinated Biphenyls (PCBs)
- Dry Bulk Density

Soil samples are to be placed on ice, but do not need to be field preserved with methanol. The soil sample collection procedure for these analyses is as follows, using one jar per analysis:

1. A soil sample is transferred from the sampling tool (i.e., split-spoon or backhoe bucket) into an appropriate, clean, laboratory-supplied jar.
2. The soil is packed into the jar with a nitrile-gloved hand to minimize headspace. However, if there is not enough soil for all required analyses, an attempt will be made to place as much soil as possible into the jars for other analyses.
3. The jar is sealed with a teflon-lined, screw cap.
4. The sample is placed in a cooler with ice.
5. The procedure is repeated until samples are collected for all required analyses.
6. Field personnel will decide which samples are to be laboratory analyzed based upon field instrument readings and other field observations, such as petroleum odor and soil staining. Only the samples that will be laboratory analyzed are left in the cooler. All other samples are discarded.

II. For soil samples collected for:

- Volatile organic compound (VOCs)
- Petroleum volatile organic compound (PVOC)
- Diesel range organic (DRO)
- Gasoline range organic (GRO)
- GRO/PVOCs

Soil will be transferred from the sampling tool into clean, laboratory-supplied jars by the following soil sampling procedure, using two jars per analysis:

1. The brass tube is capped on both ends, labeled, and placed in a cooler with ice.
2. Within two hours of sample collection, the field personnel will decide which samples are to be laboratory analyzed. This decision is based upon field instrument readings and other field observations, such as petroleum odor and soil staining. Only the samples that will be laboratory analyzed are extracted and placed in jars. All other samples are discarded.
3. The soil is quickly extracted from the brass tube using a nitrile-gloved hand, syringe, or spatula, and placed into a pre-tared sample jar.
4. Approximately 25 grams of soil will be added to the jar.
5. The laboratory-analyzed DRO soil samples do not need to be field-preserved. The laboratory preserves the DRO sample within the DNR-required time frame. The GRO, GRO/PVOC, and VOC soil samples must be field-preserved when the decision is made to have the sample laboratory analyzed. The procedure is as follows:
 - The proper amount (25 ml) of purge-and-trap grade methanol is transferred into the jars containing the soil samples. A 1:1 ratio of grams of soil to mls of methanol is required.
 - The jars are capped with a teflon-lined septum, screw cap and the contents are agitated to coat the soil particles with methanol.
 - The jars are placed in the cooler with ice.

A Percent Solids analysis must always accompany GRO, DRO, GRO/PVOC, VOC and PVOC analyses.

All soil samples remain in a cooler with ice until transported to a laboratory.

