AQUA-TECHING.

July 30, 1991

Mr. John Lewis Wisconsin Department of Transportation Office of Environmental Analysis, Room 651 P.O. Box 7916 Madison, WI 53707

Dina M. Hargiowes

Dear Mr. Lewis:

Enclosed is the Phase II Environmental Assessment Report for the Terry's Kerr McGee (Site No. 4), 505 North Iowa Street (State Highway 23), City of Dodgeville, Iowa County, Wisconsin, Department of Transportation Project 5255-04-00 (ATI Project 95643).

If you have any questions regarding this report, please do not hesitate to contact me.

Sincerely,

AQUA-TECH, INC.

Dena M. Hargraves

Environmental Technician

DMH/er

Enclosure

PHASE II

ENVIRONMENTAL ASSESSMENT REPORT

FOR THE

TERRY'S KERR-MCGEE (SITE NO. 4)

505 NORTH IOWA STREET (STATE HIGHWAY 23)

CITY OF DODGEVILLE

IOWA COUNTY, WISCONSIN

JULY 1991

PREPARED FOR THE
WISCONSIN DEPARTMENT OF TRANSPORTATION
PROJECT 5255-04-00

PREPARED BY
AQUA-TECH, INC.
140 SOUTH PARK STREET
PORT WASHINGTON, WISCONSIN 53074
ATI PROJECT 95643

PHASE II

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505 NORTH IOWA STREET (STATE HIGHWAY 23)

CITY OF DODGEVILLE

IOWA COUNTY, WISCONSIN

WDOT PROJECT 5255-04-00

Prepared By: _	Dena M. Hargraves Dena M. Hargraves Environmental Technician Aqua-Tech, Inc.	_ Date:	7/30/91	
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1.0 SUMMARY

Aqua-Tech, Inc. has completed a Phase II Environmental Assessment for the Terry's Kerr-McGee (Site No. 4) located at 505 North Iowa Street (State Highway 23), Dodgeville, Wisconsin. This assessment was contracted on April 25, 1991, by the Wisconsin Department of Transportation (WDOT), Office of Environmental Analysis under project 5255-04-00.

The purpose of this assessment was to identify possible environmental contamination within the existing WDOT right-of-way which may be associated with three underground petroleum storage tanks located at the site. The assessment included the following:

- * Regulatory background review
- * Site representative interview
- * Reconnaissance inspection
- * Three soil borings to a maximum depth of 11.5 feet
- * Collection of subsurface soil samples
- * Field screening of subsurface soil samples for volatile organic compounds

 (VOCs) with a photoionization detector (PID)
- * Chemical analyses of three subsurface soil samples for total petroleum hydrocarbons (TPH)
- * Collection of three groundwater samples
- * Field screening of three groundwater samples for VOCs with a PID

* Chemical analyses of the water samples for benzene, toluene, ethylbenzene, and xylenes (BTEX)

Results of this assessment indicate that the soils at this site are contaminated by petroleum products. Field screening of soil samples with a photoionization detector (PID) did indicate the presence of volatile organic compounds above background levels for the site. TPH levels above the 10 mg/kg (ppm) Wisconsin Department of Industry, Labor and Human Relations (WDILHR) remedial action guideline for petroleum contaminated soil were detected by laboratory analysis of soil sample KM-1.

Chemical analyses of groundwater samples collected from the soil borings indicate that groundwater is also contaminated with benzene, toluene, ethylbenzene, and xylenes above the Groundwater Quality Standards outlined in Wisconsin Administrative Code NR 140.10.

Aqua-Tech, Inc. recommends further investigation to determine the extent of contamination. Information gathered during the additional investigation will be used to determine the type of corrective action suitable for this site. Suggested pressure testing of the underground tanks has been scheduled. Contractual agreements should be concluded with the property owner and the additional investigation should be completed prior to initiating construction operations for State Highway 23. The additional investigation should be scheduled in conjunction with that of Marathon Oil No. 2 site (Site No. 5) which is located to the southwest across North Iowa Street.

2.0 SITE DESCRIPTION

2.1 Introduction

This section describes the location and physiographic setting of the site.

2.2 Site Location

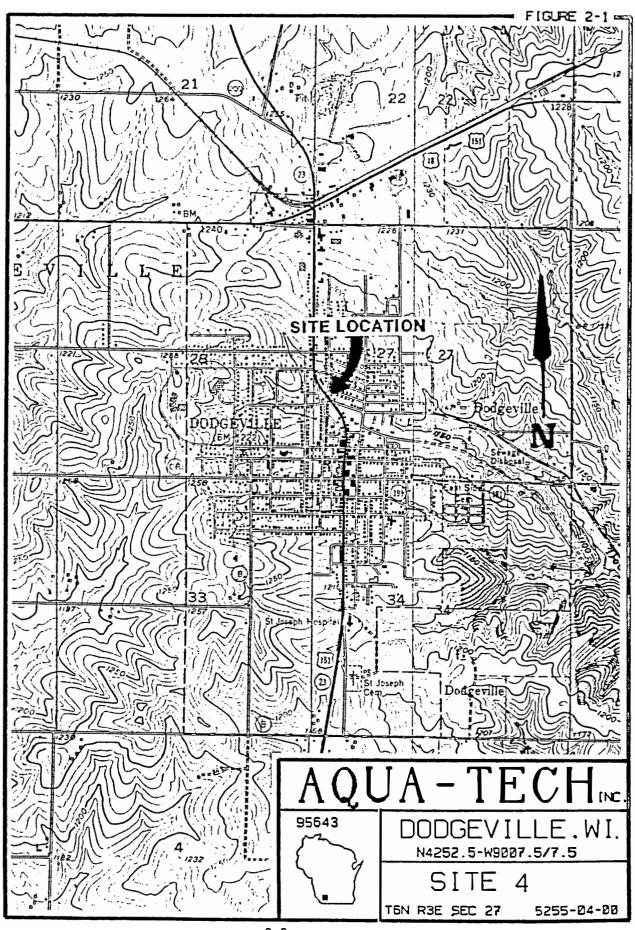
The Terry's Kerr-McGee (Site No. 4) site occupies a 0.3 acre parcel of land at 505 North Iowa Street (State Highway 23) in the city of Dodgeville, Iowa County, Wisconsin. The site is part of a commercial/residential area (See Figure 2-1).

2.3 Site Geology

This site occurs in the Western Uplands Physiographic Province of southwestern Wisconsin. It is in the portion of Wisconsin called the Driftless Area that is not covered by ice transported deposits. The surface geology and physiography of the region have been determined by the differential erosion of bedrock. This erosion has resulted in an intricate dendritic drainage pattern with deep, narrow valleys separated by flat topped ridges.

The Palsgrove, Dubuque, and Fayette silt loam, which are characteristic of the gently rolling to very steep terrain on limestone ridges or on quartzite uplands, are the dominant type of soil at this site. The soils encountered in the test borings consist of silty sand and clay with medium grained sand underlain by tan weathered sandstone.

Bedrock in the area is buried to varying depths by alluvium from several branches of the Pecatonica River. It was encountered in one of the soil borings at



a depth of 11.5 feet. Regionally, bedrock consists of Paleozoic age dolomite of the Ordovician system with some sandstone, limestone, and shale of the Galena, Decorah, and Platteville formations which are well exposed in cliffs more than one mile east and west of the site.

Local topography consists of upland ridges and adjacent narrow valleys.

Local topography at the site ranges from 6 to 12 percent slope with the ground surface sloping to the east/southeast. Regionally the ground surface slopes to the east in the area.

Groundwater was encountered in all three soil borings completed at this site at depths ranging from 5.9 to 9.0 feet. Based on surface topography, groundwater is believed to be moving in an easterly direction toward the Dodge Branch of the Pecatonica River which is approximately 300 feet east/southeast of the site.

3.0 ASSESSMENT PROCEDURES AND FIELD OBSERVATIONS

3.1 Introduction

This section outlines assessment procedures and field observations for the environmental assessment of Terry's Kerr-McGee (Site No. 4). Individual subsections include information obtained from the regulatory background review, site background review, and reconnaissance inspection.

3.2 Regulatory Background Review

A regulatory review of Terry's Kerr-McGee (Site No. 4) was conducted to ensure that the site and surrounding areas have not been identified as causing or having the potential to cause environmental pollution. Records of solid and liquid waste disposal, spills, and leaks are an indication of whether hazardous materials have been introduced to the subsurface. The following sources were referenced during this review:

- * U.S. Environmental Protection Agency CERCLIS List (March 1990)
- U.S. Environmental Protection Agency Facility Index System:
 Selected Facilities Report List (FINDS) (May 1990)
- Wisconsin Department of Natural Resources (WDNR) Registry of
 Waste Disposal Sites in Wisconsin (February 1990)
- * WDNR Inventory of Sites or Facilities Which May Cause or Threaten to Cause Environmental Pollution (Environmental Repair Program)

 (July 1987)

- WDNR Statewide Spills and Hazardous Incident Report List, January
 1978 to December 1989
- WDNR List of Leaking Underground Storage Tanks (LUST List)
 (June 1991)
- Wisconsin Department of Industry, Labor and Human Relations
 (WDILHR) Computer Inventory of Underground Storage Tanks

The Terry's Kerr McGee (Site No. 4) does not appear on any of the above lists.

There are 14 sites within a one mile radius of this site in Iowa County which may cause or threaten to cause environmental pollution to this site. Considering the distance and direction from the project area, the potential contaminant sources are believed to pose a minimal threat to the site. Listings of these sites are included in Appendixes A through D.

Two underground storage tanks at the site are on record in the computer inventory at The Wisconsin Department of Industry, Labor and Human Relations (DILHR) (See Appendix E).

3.3 Site Representative Interview

Interviews are conducted for the purpose of gathering information concerning present and past uses of the Terry's Kerr-McGee (Site No. 4) and the potential environmental impact of these activities. Dena Hargraves of Aqua-Tech, Inc. conducted a personal interview with Mr. Terry Bystol, the site owner, on May 20, 1991.

Dena Hargraves of Aqua-Tech, Inc. conducted a telephone interview with Mr.

Keith Halverson on May 24, 1991, a previous site owner.

3.4 Site History

The site has been owned by Mr. Terry Bystol and utilized as a gasoline/repair station since it was purchased from Mr. Keith Halverson in 1976. The mailing address and telephone number for the property owner are:

Mr. Terry Bystol 505 North Iowa Street Dodgeville, Wisconsin 53533 (608) 935-2401

Mr. Keith Halverson owned the property for approximately 30 years. The gasoline station was built and the tanks were installed in the 1960s. Mr. Emitt Awida, deceased, owned the property prior to 1946.

There are currently three underground storage tanks (USTs) at Terry's Kerr-McGee (Site No. 4). The sizes, contents, and installation dates are summarized in Table 3-1.

TABLE 3-1
UNDERGROUND STORAGE TANKS

TERRY'S KERR-MCGEE (SITE NO. 4)

Size (galions)	Contents	Installation Date
4,000	empty	1960s
4,000	unleaded gasoline	1960s
3,000	premium unleaded gasoline	1960s

The empty 4,000 gallon underground storage tank previously contained leaded gasoline but was pumped dry when the company discontinued the sale of leaded gasoline. The underground storage tanks are scheduled for pressure testing to determine if the tanks are secure. Safety Kleen picks up the waste oil generated on site.

3.5 Site Reconnaissance Inspection

Dena Hargraves of Aqua-Tech, Inc. conducted a reconnaissance inspection of Terry's Kerr-McGee (Site No. 4) and surrounding area on May 20, 1991. The site reconnaissance inspection included a walk through to observe the physical and surface environmental setting of the site and to determine appropriate sampling locations. Undergroundtank bed locations, underground and overhead utilities, and site accessibility were taken into consideration.

Reconnaissance Inspection Observations

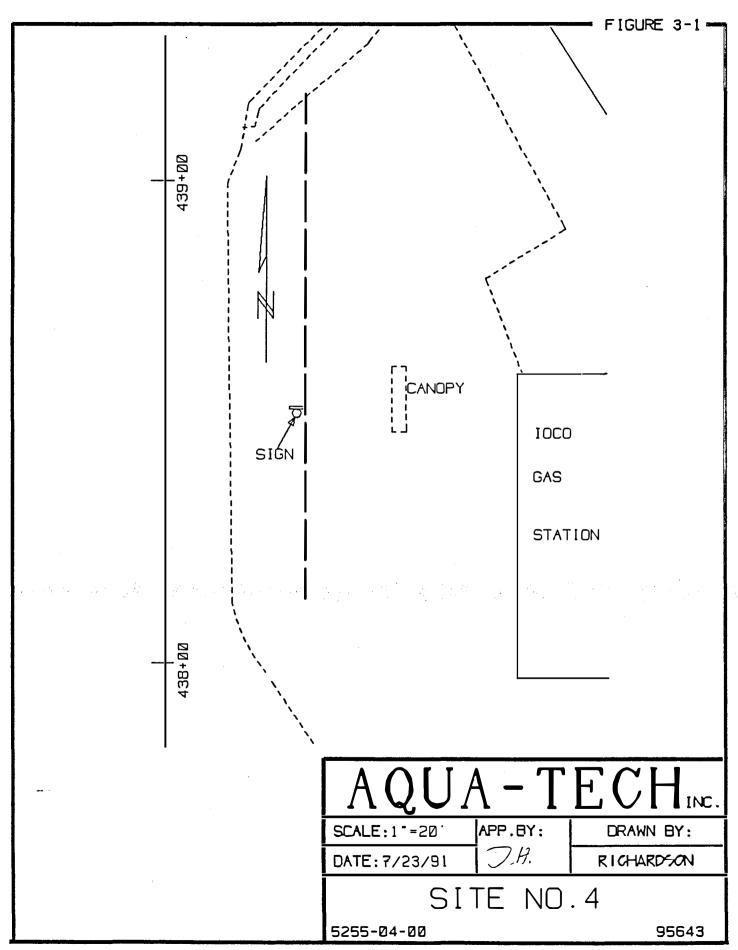
Terry's Kerr-McGee (Site No. 4) is bound on the east by residential property, on the north by Main Street, and then the Old Railroad Coal Storage site (Site No. 2, Aqua-Tech Project 95642). The site is bound on the south by East Spring Street then a vacant lot. The site is bound on the west by North Iowa Street (State Highway 23) and then Al's Small Engine site (Site No. 6, Aqua-Tech Project 95638).

The Marathon Oil No. 2 site (Site No. 5, Aqua-Tech Project 95644) is located southwest of the site across North Iowa Street.

The interior of the building was not inspected. The site is serviced by a municipal water supply system.

There are three underground storage tanks at this site. No evidence of spills or leakage of petroleum products or other hazardous substances was noted at the site (e.g., stressed vegetation, stained soil).

Figure 3-1 depicts the site features and the location of the underground storage tanks at the Terry's Kerr-McGee (Site No. 4). Photographs of the site are provided in Appendix F.



4.0 SAMPLING AND ANALYTICAL PROCEDURES

4.1 Introduction

This section outlines procedures followed for collecting soil or groundwater samples, maintaining security and integrity of the samples and chemical analysis of the samples.

4.2 Sampling Procedures

Soil samples are collected from the subsurface to determine if soil at the site is contaminated. Likewise, groundwater samples are collected to determine if the groundwater is contaminated at the site.

Soil Sampling Procedures

Subsurface soil samples are collected with a truck-mounted rotary drill equipped with a hollow stem auger and a two inch diameter, 18 inch split spoon sampler. The split spoon sampler is advanced at 18 inch intervals by conventional methods, including the attachment of the sampler to an AW rod and standard 140 pound hammer.

All drilling tools and equipment are high-pressure steam cleaned prior to the start of the sampling work. All sampling tools are also washed with an alconox and reagent water solution between sampling points to prevent cross contamination.

Subsurface soil samples are screened for volatile organic compounds with a photoionization detector (PID) immediately after the split spoon sampling tube is opened. Instrumental readings (PID levels in ppm) and sample descriptions/re-

marks are recorded on a soil profile log at the appropriate depth intervals. Results from this screening survey are used to aid in the selection of samples for laboratory analysis.

The following headspace methodologies are utilized for PID field screening of soil samples:

- 1. Headspace samples are collected in clean four ounce glass jars.
- 2. The jars are filled one-half full.
- Immediately after the headspace sample is packed in the jar, the mouth of the jar is covered with a heavy gauge aluminum foil.
- Once the headspace sample is sealed, the sample is agitated for at least 30 seconds to break soil clods and release vapors.
- 5. After the sample is agitated, the sample is allowed to equilibrate for 20 minutes at approximately 70°F out of direct sunlight.
- 6. Following equilibration, the sample headspace is analyzed by inserting the tip of the PID probe through a single, small hole in the foil seal to a position halfway between the seal and sample surface and then recording the highest instrumental reading.
- 7. The PID is properly maintenanced and calibrated according to the manufacturer's specifications at the site at least daily before commencing field operations. Results of the calibration are recorded on a calibration log sheet (See Appendix G).

The second sample from each sampling location is a split sample collected from the same two foot depth interval and at the same time that the headspace sample is collected.

After pedologic logging, the sample selected for chemical analyses is tightly packed into a clean, TeflonTM lidded, four ounce jar and cooled to 4^oC for transport to the laboratory.

Groundwater Sampling Procedures

A groundwater sample is collected by inserting a clean disposable polyethylene bailer down the hollow stem augers and transferring the contents into the appropriate container. If the parameter to be tested is BTEX or VOCs, the contents are transferred into 40 ml. glass vials, containing HCL preservative, taking care to ensure no air space is included. The water sample containers are then sealed and cooled to 4°C for transport to the laboratory.

4.3 Procedures for Abandoning a Borehole

After all necessary soil and groundwater samples are collected at a given borehole, the borehole is completely backfilled with bentonite and abandoned according to procedures outlined in Wisconsin Administrative Code NR 141.25. If field screening revealed the soil samples were contaminated, the cuttings were containerized in a DOT approved container while awaiting approval for disposal at a WDNR approved facility. One 55 gallon drum and one 30 gallon drum remain at the site. Boring abandonment documentation is included in Appendix H.

4.4 Chain of Custody Procedures

This section describes procedures used for sample identification and chain of custody. The purpose of these procedures is to ensure security and integrity of the sample from collection through transportation, storage, and analysis.

Sample identification documents are carefully prepared so that sample identification and chain of custody are maintained and sample disposition is controlled. Sample identification documents include:

- * Field Notebooks
- * Sample Labels
- * Chain of Custody Records

Each sample is labeled, chemically or physically preserved, and sealed immediately after collection. To minimize handling of sampling containers, a label is filled out prior to sample collection. The sample label is completed using waterproof ink and then firmly affixed to the sample container. The sample label provides the following information:

- Location
- Sample Number
- Date and Time of Collection
- * Analysis Required
- Name of Sampler

A chain of custody record is fully completed in triplicate by the Aqua-Tech sampler immediately following sample collection (See Appendix I).

Transfer of Custody Shipment

The samples are packed in a cooler and are accompanied by the chain of custody record. When transferring samples, the individuals relinquishing and receiving them sign, date, and note the time on the chain of custody record. This record documents sample custody.

Laboratory Custody Procedures

A designated sample custodian accepts custody of the shipped sample and verifies the sample identification number matches that on the chain of custody record. A copy of the completed chain of custody record is retained by the laboratory until analyses are complete. The record is then transferred to the site file with the analytical results.

5.0 FIELD AND ANALYTICAL RESULTS

5.1 Introduction

This section summarizes results of screening soil samples in the field for volatile organic compounds (VOCs) and chemical analyses of soil samples for total petroleum hydrocarbons (TPH) and groundwater samples for benzene, toluene, ethylbenzene and xylenes.

5.2 Sample Locations

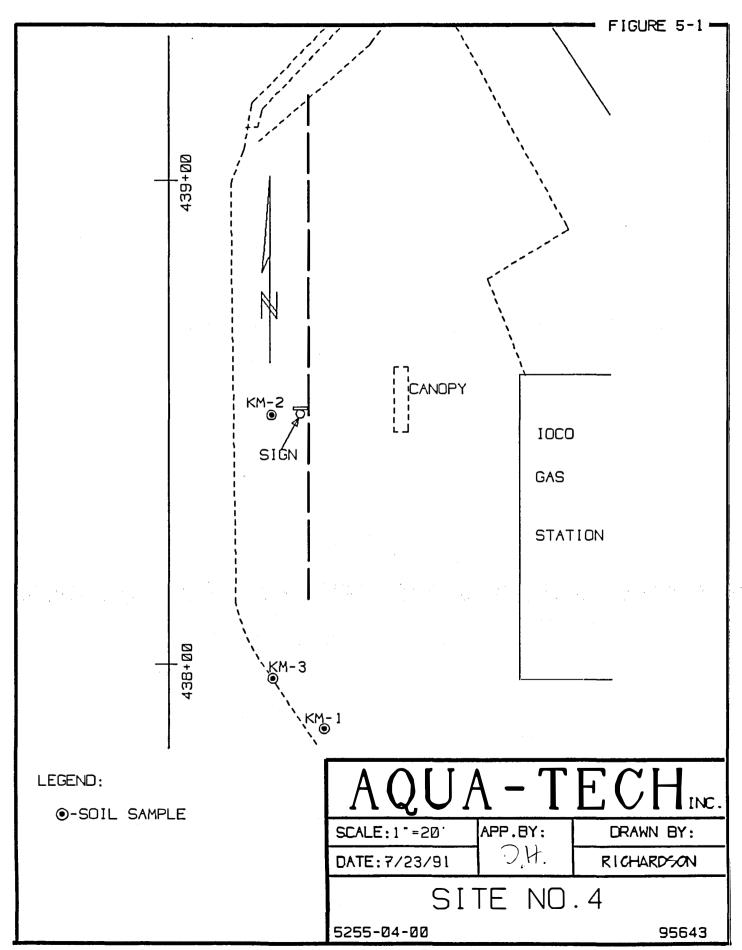
On May 28, 1991, Dena Hargraves of Aqua-Tech, Inc. collected three subsurface soil samples and three groundwater samples from borings completed at Terry's Kerr-McGee (Site No. 4). See Figure 5-1 for boring locations.

The borings completed at the site are referenced according to the following survey station locations:

O .	Sample	Offset
Boring	Location	(Feet)
KM-1	437 + 87	Right 33
KM-2	438 + 52	Right 22
KM-3	437 + 97	Right 22

Subsurface soil samples KM-1 and KM-3 were collected as grab samples from the 5.5 to 7.0 foot depth interval. These samples were collected because they were the intervals with the highest PID reading in the borings.

Subsurface soil sample KM-2 was collected as a grab sample from the 7.0 to 8.5 foot depth interval. This sample was collected because it was directly above the water table.



Groundwater samples KMGW-1, KMGW-2, and KMGW-3 were collected at depths of 5.9, 9.0, and 6.0 feet, respectively, to determine if any petroleum products are present in the groundwater at the site.

5.3 Results of Field Screening

A summary of field screening results of subsurface soil samples for VOCs with a photoionization detector (PID) is as follows:

- * Subsurface soil samples from boring KM-1, yielded PID readings that ranged from 0 to 100 ppm.
- * Subsurface soil samples from borings KM-2 and KM-3, yielded PID readings that ranged from 0 to 16 ppm.
- * Groundwater samples from borings KM-1, KM-2, and KM-3 yielded PID readings that ranged from 1 to 32 ppm.

All PID readings relative to depth for each boring completed at Terry's Kerr-McGee (Site No. 4) are recorded on soil profile logs (See Appendix G).

5.4 · Analytical Methods Utilized for Chemical Analyses of Samples

The ORTEK Environmental laboratory in Green Bay, Wisconsin analyzed the soil and groundwater samples collected at Terry's Kerr-McGee (Site No. 4) utilizing the California Method and EPA Method 8020, respectively. Each analytical method follows specific quality control (QC) criteria listed in the reference manual describing the method. This includes the selection and calibration of appropriate instruments

and the use of QC samples. Daily performance tests and the demonstration of precision and accuracy in the laboratory are required.

5.5 Results of Chemical Analysis of Aqua-Tech Collected Samples

Soil Samples

Chemical analyses of three soil samples yielded the following results:

- No TPH as kerosene, gasoline, or diesel was identified in soil samples KM-2 and KM-3 at concentrations above the 5.0 mg/kg (ppm) laboratory detection limit.
- A TPH level of 173.7 mg/kg as gasoline was identified in soil sample KM-1. No TPH as kerosene or diesel was identified in soil sample KM-1 at concentrations above the 5.0 mg/kg laboratory detection limit.

Table 5-1 contains complete results of the chemical analyses of the soil samples. All TPH results were calculated on a dry weight basis as required by . Wisconsin DILHR. Original laboratory data are provided in Appendix I.

Groundwater Samples

Chemical analyses of three groundwater samples yielded the following results:

- * Groundwater sample KMGW-1 is contaminated by benzene (25,000
 - ug/l), toluene (6,300 ug/l), ethylbenzene (4,700 ug/l), and xylenes

- (14,000 ug/l). An elevated laboratory detection limit was necessary due to the high level of compounds present.
- * Groundwater sample KMGW-2 had detectable amounts of benzene (2.6 ug/l), toluene (1.3 ug/l), ethylbenzene (1.6 ug/l), and xylenes (4.2 ug/l).
- * Groundwater sample KMGW-3 had detectable amounts of benzene (91.0 ug/l) and ethylbenzene (1.6 ug/l). No toluene or xylenes were identified above the 1.0 ug/l and 3.0 ug/l respective laboratory detection limits.

Table 5-2 contains complete results of the chemical analyses of the groundwater samples. Original laboratory data are provided in Appendix I.

TABLE 5-1

RESULTS OF CHEMICAL ANALYSES OF

AQUA-TECH, INC. COLLECTED SOIL SAMPLES FOR

TERRY'S KERR-MCGEE (SITE NO. 4)

DATE SAMPLED: MAY 28, 1991

DATE ANALYZED: JUNE 5, 1991

Parameter	Sample .KM-1.	Sample _KM-2_	Sample <u>KM-3</u>	Laboratory Detection _Limit_
Depth Interval (feet)	5.5-7.0	7.0-8.5	5.5-7.0	
Total Solids (%)	77.1	73.3	78.9	
Total Petroleum Hydrocarbons (TPH)* (mg/kg)** +				
as kerosene as gasoline as diesel	ND 173.7 ND	ND ND ND	ND ND ND	5.0 5.0 5.0

ND = Not Detected

- * All TPH results reported on a dry weight basis.
- Ten mg/kg (ppm) is the maximum level of petroleum contamination allowed in soil before remediation is required by the Wisconsin Department of Industry, Labor and Human Relations (WDILHR).
- + The terms "as gasoline", "as diesel", or "as kerosene" do not necessarily indicate the type of petroleum hydrocarbon present. Rather, they indicate the closest standard used to quantitate the sample result.

TABLE 5-2

RESULTS OF CHEMICAL ANALYSES OF

AQUA-TECH, INC. COLLECTED GROUNDWATER SAMPLES FOR

TERRY'S KERR-MCGEE (SITE NO. 4)

DATE SAMPLED: MAY 28, 1991

DATE ANALYZED: JUNE 5, 1991

Parameter	Sample KMGW-1	Laboratory Detection _Limit_	Sample KMGW-2	Laboratory Detection _Limit_	Sample KMGW-3	Laboratory Detection Limit
Depth (feet)	5.9		9.0		6.0	
Benzene (ug/L)	25,000	200	2.6	1.0	91.0	1.0
Toluene (ug/L)	6,300	200	1.3	1.0	ND	1.0
Ethylbenzene (ug/L)	4,700	200	1.6	1.0	1.6	1.0
Xylenes (ug/L)	14,000	600	4.2	3.0	ND	3.0

ND = Not Detected

ug/L = ppb

6.0 DISCUSSION OF ASSESSMENT RESULTS

6.1 Introduction

This section discusses field observations and analytical data pertaining to observed or potential contamination which may be attributed to the Terry's Kerr-McGee (Site No. 4).

6.2 Site History, Regulatory Review, and Reconnaissance Inspection

The site history failed to produce any evidence of intentional or accidental releases of hazardous materials at the site.

The regulatory review identified 14 sites within a one mile radius of the site which may have a potential to contaminate the Terry's Kerr-McGee (Site No. 4).

U.S. EPA Regulatory Program

The U.S. EPA maintains a computer inventory (FINDS) of facilities regulated under various programs. There are seven sites regulated in the city of Dodgeville that are within a one mile radius of the site. The nearest site is the Iowa County Cooperative Warehouse, 401 North Union Street, approximately 750 feet southeast of the Terry's Kerr-McGee (Site No. 4).

WDNR Registry of Waste Disposal Sites in Wisconsin

The WDNR maintains a list of waste disposal sites in the state. There are two sites in the city of Dodgeville that are within a one mile radius of the site. The nearest site is the city of Dodgeville Waste Disposal site, approximately 2,700 feet southwest of the Terry's Kerr-McGee (Site No. 4).

WDNR Environmental Repair Program

The WDNR maintains an inventory of sites or facilities which may cause or threaten to cause environmental pollution. There is one site in the city of Dodgeville. This site is the city of Dodgeville Municipal Well #3 which is approximately 400 feet west of the Terry's Kerr-McGee (Site No. 4).

WDNR Statewide Spills and Hazardous Incident Report

January 1978 to December 1989

The WDNR maintains a list of spills and hazardous incidents which have occurred in the state since January 1978. There are four reported spills within a one mile radius of the site. The nearest incident is at Jack's Service Center (Site No. 9, ATI #95731), 405 North Iowa Street, approximately 700 feet southeast of Terry's Kerr-McGee (Site No. 4). This spill consisted of 25 gallons of gasoline due to a malfunctioning shut off valve on July 28, 1989.

A reconnaissance inspection of the site and surrounding area failed to identify any signs (stressed vegetation, soil stains) of potential contamination.

6.3 Soil

Field screening of split spoon samples from borings KM-1, KM-2, and KM-3 with a PID suggested the presence of VOCs in excess of background levels.

No TPHs were detected by laboratory analyses in soil samples KM-2 and KM-3. TPH contamination as gasoline (173.7 mg/kg) (ppm) was identified by laboratory analysis of subsurface soil sample KM-1. This value is above the

Wisconsin DILHR remedial action guideline of 10 mg/kg (ppm) for petroleum contaminated soil.

6.4 Groundwater

Groundwater was encountered in borings KM-1, KM-2, and KM-3 at depths of 5.9, 9.0, and 6.0 feet, respectively. Chemical analysis of groundwater sample KMGW-1 collected from boring KM-1 revealed the presence of benzene (25,000 ug/l), toluene (6,300 ug/l), ethylbenzene 4,700 ug/l), and xylenes (14,000 ug/l). These concentrations are well above the Groundwater Quality Enforcement Standards outlined in Wisconsin Administrative Code NR 140.10 (See Table 6-1).

Chemical analyses of groundwater sample KMGW-2 collected from boring KM-2 revealed detectable amounts of benzene (2.6 ug/l), toluene (1.3 ug/l), ethylbenzene (1.6 ug/l), and xylenes (4.2 ug/l). The benzene concentration is above the Preventive Action Limit outlined in Wisconsin Administrative Code NR 140.10.

Chemical analyses of groundwater sample KMGW-3 collected from boring KM-3 revealed detectable amounts of benzene (91.0 ug/l) and ethylbenzene (1.6 ug/l). The benzene concentration is above the Groundwater Quality Enforcement Standards. No toluene or xylenes were identified in groundwater sample KMGW-3 above the 1.0 ug/l and 3.0 ug/l respective laboratory detection limits.

TABLE 6-1

PUBLIC HEALTH GROUNDWATER QUALITY STANDARDS

WISCONSIN ADMINISTRATIVE CODE

CHAPTER N.R. 140 SUBCHAPTER II

GROUNDWATER QUALITY STANDARDS

Substance	Enforcement Standard (micrograms per liter)	Preventive Action (micrograms per liter)
Benzene	5	0.067
Ethylbenzene	1360	272
Toluene	343	68.6
Xylenes	620	124

7.0 RECOMMENDATIONS

After completing the Phase II Environmental Assessment for Terry's Kerr-McGee (Site No. 4), Aqua-Tech, Inc. recommends further investigation to determine the extent of contamination. Information obtained from the additional investigation will be used to determine the type of corrective action suitable for this site. The underground storage tanks are scheduled for pressure testing. Contractual agreements should be concluded with the property owner and the additional investigation should be completed prior initiating construction operations for State Highway 23. The additional investigation should be scheduled in conjunction with that of Marathon Oil No. 2 site (Site No. 5) which is located to the southwest across North Iowa Street.

APPENDIX A

REPORT: FIRILIA 85 CHORSES UNITED STATES ENVIRONMENTAL PROTECTION ASENCY FACILITY INDEX SYSTEM (FINDS) RANDCES DEINCELNOE DESTACIONE I ETIM TROSER ILETAR PROGRAM OFFICE SOURCE CODE EPA-ID FAC. MASS/ADDRESS/CITT STATE ZIP 01 02 03 04 05 07 08 09 10 13 14 15 16 *10930703095 PATHE & DOLKN INC DEFOREST PLT 5338 BORWAY GROVE SCHOOL RD ¥1 53532 DE POREST WID106723975 POLK DIESZU AND MACHINE INC 5960 BASSE RJ DEFOREST 2I 53532 WIDO73840084 STOKELY USA INC 8 # T 51 DE FOREST WID139753765 TECH-JOLD CORPORATION 116 ANTIQUE LANE DE POREST ¥I 53532 WIDD23199951 WINDSOM MARKTHON TROCK STOP 6155 HIGRARY 51 CEFOREST WI 53532 WID980903504 WIS SELL INC DEFOREST W9520 CO TRE V S PATTON AD DE FOREST **21 53532** WIDO73845123 DODGEVILLE REBORTAL HOSPITAL B25 S IDJA ST DDDJEVILLE 71 53533 I X #ID096347165 DUDGEVILLE SCHOOL DIST PROCEVILLE PI 53533 WIDSSILSCOM GENERAL TELEPHONE CO OF WISCOM 105 LEFFLER WI 53533 DODGEVILLE FID988557582 IDEA CHIY HAY DEPT

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WID023204845 IO44 COUNTY COOPERATIVE WAREHO

WID93856 7508 IVERSOR CONSTRUCTION CORF1/4 851/4 52030

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APPENDIX B

WASTE DISPOSAL SITES IN WISCONSIN

DNR			LOCA	TION		STATUS /
DIST.	COUNTY	FACILITY NAME	TOWN/CITY	ADDRESS/LEGAL DESCRIPT.	ID NUM.	INFO. SOURCE
SD	GREEN LAKE	TN PRINCETON	PRINCETON	SW SW 04 15N 12E	626	ACTIVE SITE
SD 9	GREEN LAKE	TN SENECA	SENECA	SW SW 07 17N 12E	481	INACT 1/87
SD	GREEN LAKE	TN SENECA LANDFILL	SENECA	E SW 01 17N 11E	3050	ACTIVE SITE
SD	GREEN LAKE	BADGER MINING CORP-ST MARIE	ST MARIE	NW NE 13 16N 12E	1842	ACTIVE SITE
SD	AUOI	VIL ARENA	ARENA	NE SW SO9 08N 05E	183 TEMP	LIC LOG 1970
SD	AWOI	VIL-TN ARENA	ARENA	NE SW 17 08N 05E	1944	ACTIVE SITE
SD	AUOI	WISC RIVER DEVELOPMENT CORP	ARENA	SE SW S21 08N 04E	POST-REG	CO FILES BUREAU
SD	AWOI	VIL BARNEVELD DUMP	BARNEVELD	NE SO9 O6N O5E	POST-REG	DOOGEVILLE AREA
SD	IOUA	VIL BARNEVELD	BR I GHAM	NE NW SO2 O6N O5E	968 TEMP	INACT FILE 2/84
SD	IOWA	WATSON QUARRY	BRIGHAM	NE NE S10 6N 5E	ONE TIME	AREA FILES
SD	IOWA	TN CLYDE	CLYDE	SE NW 36 OBN 02E	825	ACTIVE SITE
× sD	IOWA	CTY DODGEVILLE	DOOGEVILLE	SW SE S28 O6N O3E	PRE-REG	K. PALZKILL
SD	IOWA	IOWA CO HIGHWAY DEPT	DODGEVILLE	S25 O6N O3E	POST-REG	DOOGEVILLE AREA
SD 5	IOWA	MILITARY TRAIL-DNR	DOOGEVILLE		ONE-TIME	EGRE 1-4-85
SD	IOWA	WI DNR-GOVERNOR DODGE ST PARK	DOOGEVILLE	SW NE SO3 O6N O3E	2848 TEMP	INACT FILE 2/84
SD	AWOI	CTY DOOGEVILLE SLF	DODGEVILLE	NW NW \$35 O6N O3E	1082 TEMP	INACT FILE 2/84
⊁ SD	AWOI	JOE KING LUMBER	DODGEVILLE	STH 23 NORTH	POST-REG	DODGEVILLE AREA
SD	AWOI	TN DOOGEVILLE	DODGEVILLE	NE SW 17 06N 03E	202	ACTIVE SITE
SD	IOWA	VIL MONTFORT	EDEN	NE NW 30 06N 01E	647	ACTIVE SITE
SD	AWOI	VIL COBB	EDEN	NW NW S19 O6N OZE	1712 TEMP	LIC LOG 1970
SD	AWOI	TN HIGHLAND	HIGHLAND	SE SE S20 07N 02E	983 TEMP	LIC LOG 1970
SD	AWOI	TN HIGHLAND	HIGHLAND	SE NW S15 07N 01E	POST-REG	DODGEVILLE AREA
SD	AWOI	VIL HIGHLAND	HIGHLAND	NE SE 29 07N 01E	1934	ACTIVE SITE
SD	10WA *	VIL HIGHLAND	H I GHLAND	NE NE S28 07N 02E	PRE-REG	AREA FILES
SD 5	AWOI	VIL HIGHLAND	. HI GHLAND	SW SE 28 07N 01E	1361 TEMP	INACT LOG 1/85
SD	AMOI	VIL LINDEN	LINDEN	NE SW SO8 O5N O2E	PRE-REG	DODGEVILLE AREA
SD	AWOI	VIL LINDEN	LINDEN	NW NE 08 05N 02E	813	ACTIVE SITE
SD	AWOI	TN LINDEN	LINDEN	NE NW 17 05N 02E	1649	ACTIVE SITE
SD	AMOI	IOWA COUNTY HWY DEPT	LINDEN	S15 O5N O2E	POST-REG	CO FILES BUREAU
SD	IOWA	TN MIFFLIN	MIFFLIN	NE NW SO6 04N 01E	644 TEMP	LIC LOG 1970
SD	IOWA	ROBERT HELGESEN PROPERTY	MINERAL POINT	JACKSON ST AT CREEK	POST-REG	CO FILES BUREAU
SD	IOWA	VINCENT SCHAAF	MINERAL POINT	NE S11 04N 02E	POST-REG	CO FILES BUREAU
SD	IOWA	DAVID J SCHICKEL PROPERTY	MINERAL POINT	S1/2 S08 O4N O3E	ONE-TIME	CO FILES BUREAU
SD	AWOI	MINE DUMP	MINERAL POINT	SW SE SO6 04N 03E	PRE-REG	MINE SURVEY

APPENDIX C

INVENTORY OF SITES OR FACILITIES WHICH MAY CAUSE OR THREATEN TO CAUSE ENVIRONMENTAL POLLUTION

544		0.175 00		_	LOCATION	•			LIKELY	LIKELY
DNF	T COUNTY	SITE OR FACILITY NAME	SITE OR FACILITIY OUNER/OPERATOR/PRP	TOWN OR CITY	ADDRESS	CECCRADULG		CURRENT	INVESTIGATIO	
		++				GEOGRAPHIC	MIGRATION	ACTION	FUNDING	FUNDING
•			S WHERE PUBLIC FUNDS (SUPERF				•	•		
SE	OZAUKEE	GRAFTON WATER SUPPLY	GRAFTON WATERWORKS (0)	VIL GRAFTON		S13 10N 21N	CA	ERF	ERF	ERF
SE	OZAUKEE	SAUKVILLE WELL FIELD	•	CTY SAUKVILLE		S35 11N 21E	CM	•	ERF ·	ERF
SE	WASHINGTON	HARTLAND WATER SUPPLY		TN HARTLAND		08N 18E	CA		ERF	ERF -
SE	WASHINGTON	WEST BEND WATER SUPPLY	WEST BEND WATER UTIL. (0)	CTY WEST BEND		SE NW S11 11N 19E	CM	ERF	ERF	ERF -
SE	WAUKESHA	SAN. TRANS & LDFL-DELAFIELD	•	TN DELAFIELD		S SW S22 07N 18E	CM		ERF	ERF
*SE	MILWAUKEE	MOSS-AMERICAN (KERR/MCGEE)	MOSS-AMERICAN (OP)	CTY MILWAUKEE	8716 GRANVILLE RD	N SOB OBN 21E	GV, SV	SUPERFUND	SUPERFUND	SUPERFUND
so	DANE	FITCHBURG WATER SUPPLY		CTY FITCHBURG		NE 07N 09E	CA.		ERF	ERF
so	DODGE	WAUPUN WATER SUPPLY	WAUPUN PUB. UTILITIES (0)	CTY WAUPAN		SO5 13N 15E	CM	ERF	ERF	ERF
\succ so	IOWA	DODGEVILLE MUNI. WELL #3		CTY DODGEVILLE		E S28 06N 03E	GM	ERF	ERF	ERF
so	ROCK	MILTON MUNICIPAL WELL		CTY MILTON		S S27 O4N 13E	CM		ERF	ERF
* \$0	DOOGE	OCONOMOVOC ELECTROPLATING	OCONOHOUGE ELECTROPLATING(O	TN ASHIPPUN	W2573 OAK STREET	SE S30 09N 17E	CW, SW, SITE	SUPERFUND	SUPERFUND	SUPERFUND
VC	CLARK	OWEN LDFL	CITY OF OWEN			SE NE SO1 28N 02W	SITE		ERF	UNKNOUN
VC	CLARK	WITHEE LDFL	VILLAGE OF WITHEE	TN HIXON		SE NE S32 29N 02W	SITE		ERF	UNKNOUN
VC	CRAWFORD	PRAIRIE SAND & GRAVEL INC	•**	TN PRAIRIE DU C	HIEN	\$24 07N 07N	GW		ERF	UNKNOWN
VC	LA CROSSE	LA CROSSE ISLE LA PLUME LDF	LCITY OF LA CROSSE (O)	CTY LA CROSSE	MARCO DRIVE	N SO7 15N 07V	CM		ERF	UNKNOWN
WC	LACROSSE	LACROSSE MUNI. WATER SUPPLY	CITY OF LA CROSSE (O)	CTY LACROSSE		17N 07W	GW	ERF	ERF	UNKNOUN
WC	MONROE	NORTH TOMAH WATER SUPPLY		CTY TOMAH		S09 17N 01W	CM	ERF	ERF	UNKNOUN
VC	ST CROIX	LEE FARMS (ROSEN METALS)		TN EAU GALLE		N NE S32 28N 16W	SITE	SF EMERG	ERF	ERF
*VC	MONROE	TOMAH ARMORY AREA		CTY TOMAH		E \$33 18N 01W	SITE	PRO. NPL	SUPERFUND	UNKNOWN
*VC	MONROE	TOMAH FAIRGROUNDS	CITY OF TOMAH (O)	CTY TOMAH	CTH C	NE NE SOO 17N 01N	SITE	PRO. NPL	SUPERFUND	UNKNOWN
•WC	EAU CLAIRE	EAU CLAIRE MUN. WELL FIELD	CTY EAU CLAIRE (0)	CTY EAU CLAIRE		SE SW SO5 27N 09W	CM .	SUPERFUND	SUPERFUND (C	SUPERFUMD
		CATEGORY III - SITES WHERE	FUNDING SOURCE IS UNKNOWN AT	THIS TIME (YET	TO BE DETERMINED)			·		
LH	BROWN	WIS PUBLIC SERV CORP	WIS. PUBLIC SERV CORP (O)	CTY GREEN BAY	GOV LOTS 16,18,19	,20	GV		UNKNOWN	UNKNOWN
LM	BROWN	R.L. O'KEEFE & SONS	R.L. O'KEEFE & SONS (OP)	TN DEPERE	CTH X	S36 22N 20E	CM		UNKNOUN	UNKNOWN
LM	BROWN	CITY DISPOSAL CORP (WHI)	WASTE MANAGEMENT, INC (0,0P)	TN EATON		325 NES 1ES UN US	CM		UNKNOWN	UNKNOW
LM	BROWN	GREEN BAY (HUMBOLT RD)	CITY OF GREEN BAY (O,OP)	TN GREEN BAY		NW S35 24N 21E	CM		UNKNOUN	UNKNOWN
LM	WAUPACA	J&J LAUNDRY/DRY CLEAN.	J&J LAUNDRY/DRY CLEAN.(O)	CTY WAUPACA	CHURCHILL ST.	S29 4 S30 22N 12E	GW	ST ENF	UNKNOWN	UNKNOWN
LM	WINNEBAGO	BERGSTROM PAPER LF-NEENAH	P.H. GLATFELTER (0,0P)	TN NEENAH	LARSEN RD.	NW NE S30 20N 17E	CM		UNKNOWN	UNKNOWN



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Spills by County Within District

,	Dete	Substance	Quentity	Location		City	Town	Range	Section (1 0 02	Cause	spiller and City
•												
	04/22/197	8 ANHYDROUS AMONIA	UNICHOLAI			DODGEVILLE					FARM TRAILER OVERTURNED	UNICHOUN
		8 ANNYDROUS APPONTA	UNKNOUN	CTH I & CTH PO		HYLAND	07	0 2E			TRAILER OVERTURNED	STAMDARD OIL FERTILIZERS,
	07/18/197	ANHYDROUS APPONTA	UNKHOUN	MVY 53		DODGEVILLE	07	03	15 I	W W	TRUCK OVERTURNED	MEILSVILLE CO-OP, MEILSVILLE
	06/15/197	P ANHYDROUS APPONIA	3,900 G	INTERSECTION OF CTN 2 & 18/151	e muy		06	03E			TANK OVERTURNED	DOUGLAS JAMES, DODGEVILLE
	03/13/198	O LIQUID NITROGEN FERT., 28 %	16,600 G	.2 MILES EAST OF CTH T	E HAY	BARNEVELD	06	05E	09 9	an .	TANK LEAK	QUAD COUNTY CO-OP, BARNEVELD
	03/17/198	O FUEL OIL, #2	100 G	1/4 MILE W. OF EVANS OF RD. & HUY 18	UARRY	DODOEVILLE	06	04E	20 9	E SN	LEAKING HOSE	DAVID DEREMDINGER, DODGEVILLE
	05/23/198	082AJ 0	10 G	IHM ROAD, 1 MILE WEST (OF 18,	BARNEVELD	06	05E	08	E W	FRAME ON SPRAYER BROKE, TANK	JERRY INM, BARNEVELD
	04/27/198	1 ANNYDROUS AMERICA	36,840 #	STN 23	*.	LYONING	78	03E	03		SUSPENSION OF TRAILER GAVE OUT	N-REN CORP/GROWNAK INC., COLUMBUS
×	10/18/198	1 GASOLINE	&1 G	SPRING & UNION		DODGEVILLE					AUTO STRUCK 4 PIPES	IONA COUNTY CO-OP, DODGEVILLE
	12/11/198	1 LMEY	400-500 G	STH 133, 1 1/2 HILES E/	AST OF	MUSCODA	89	01E	07		REAR AXLE CAME OFF	STANLEY MEISTER, MUSCODA
	02/01/198	2 UNKHOUN	UNKNOWN	BLUFF RIVER	ort.		06	DIE	22 5	E 2M	SUSPECT CATTLE FEED LOT	UNITHOUGH
	02/12/198	2 MANUME, MOG	11,000 G	CT HAT T AND PIKES PEAR	ROAD	RIDGEWAY	D7	04E	24 5	E MA	10 LOADS MANURE PUMPED ON HILLSIDE	JANE GAHLMAN, RIDGEWAY
	06/19/1963	2 WHEY	UKMOUN	MUY 18		DODGEVILLE	08	01E	34 5	W W	TRUCK ROLL-OVER	RODNEY DEYO, BARABOO
	08/05/198	2 HITRIC ACID	5 G	MAY 60 & 14-SPRING GREE STOP	EN TRUCK	SPRING GREEN					LEAKING VALVE ON TRUCK	PAT BOHLEN, NEWPORT MIN
	09/16/196	2 WASTEWATER FROM CREAMED CORN	10,000 @	CONDICATE CANNING		OCCIVICACIOC					UNKHOLM	OCCHOMOLOG CANNING , COLBY
$\boldsymbol{\varkappa}$	12/31/196	? FUEL OIL	UNKNOWN	UNION & SPRING STIN S	STREAM	DODGEVILLE					UNKHOWN	UNKNOW
		3 TRANSFORMER FLUID	UNK	RT. 3 SPRINGREEN		N/A					LEAKING TRANSFORMER	VISCONSIN POVER AND LIGHT
	07/19/1983		UNK	UNK	÷.	N/A					TRANSFORMER BLEW DOWN	VISC, POWER & LIGHT, MINERAL PT.
		B DIMETHOATE 267	1 6	UNK		N/A	03	04E	21 5	E SE	EQUIPMENTAL FAILURE	ALLEN PIERCE, MINERAL PT.
		· · ·	25 G	114 SHAKERAG ST		MINERAL POINT					STORM BROKE OFF LIMB	VIS POWER & LIGHT
	10/19/196	S WHEY	UNK	MEXEBURG CHEESE FACTORY	'	MINERAL POINT					DUMPED WHEY INTO RIVER STREAM	MEXEBURG CHEESE FACTORY, MINERAL PT
		LIQUID NITROGEN 28%	2000 G	DRY DOG RACO		HIGHLAND		01E	28	W SE	TRUCK MECHANICAL FAILURE	RIVERDALE AG. SERVICE, MUSCODA
	05/18/1984		UNK	HUT 151, SOUTH OF MINER		N/A	UNK				UNK	UNK
	05/23/1984	PCB	2 QUARTS	WPL SUB STATION- HVY 14		SPRING GREER	UNK				UNK	WIS POWER & LIGHT, MINERAL POINT

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Spills by County Within District

Date	Substance	Quentity	Location		City	Town	Range	Section	001	902	Cause	Spliter and City
06/18/	1984 FUEL OIL, OTHER 1984 INSECTICIDE-HEPTACHLOR	6500 Q UNK	UNK UNK		BARNEVELD BARNEVELD	O6 UNK	05E	03	SV	su	TORNADO TORNADO DEPOSITED ON RESIDENCE	QUAD COUNTY COOP, BARNEYELD MONICA OLDAY, BARNEYELD
	1984 ATRAZINE & LASSO & WATER 1984 DIESEL FUEL	400 Q 200-2000 Q	-300 YDS NE OF N. WARDELL 3 N S OF MINERAL POINT-NAT		N/A N/A	OA UWK	OIE		SM	KE	SPREADING EQUIPMENT ACCIDENT TRUCK ROLLED OVER	BEN MINTER, AVOCA MERTEN'S TRANSPORT CO, MADISON
04/19/	1985 FERTILIZER, 9-23-30	1000 #	WILLOW SPRINGS RD		H/A	106					TRUCK RAN OFF ROAD	GRANTLAND FS, MONTFORT
X05/31/	1986 28% NITROGEN	40 Q	401 H. UNION	. •	DODGEVILLE	06	02E	28	SM	KV	MIRSE TANK SPRANG A LEAK IN	IOWA CO. CO-OP, DODGEVILLE
12/11/	1986 GASOLINE	UNKNOWN	COMERCE AND HIGH ST.	·	UNKNOW						LEAKING TANKS	MARR'S SHELL SERVICE, MINERAL POINT
01/13/	1987 UNLEADED GAS	410 Q	MAY. 23 AT DODGE ST.		UNKNOWN	64	3E	28	SE	NE	FAILED SEAL ON PUMP	BRAADEN OIL CO., DODGEVILLE
04/17/	1987 PROM	1-5 Q	.1 M. W. OF INTERS. CTN A	AND	UNICHOLAN	04	2E	16	SE	ME	CONT.FELL OFF TRUCK & RUM OVER SENI	TERRA CHEMICAL, SUM PRAIRIE
08/07/	1987 FUEL OIL	UNICHOUN	WYOMING VALLEY SCHOOL		SPRING GREEN	711	3E	3	ME	NE	LEAKING UNDERGROUND TANK	RIVER VALLEY SCHOOL DIST., SPRING GR
08/24/	1987 28% N SOLUTION	18,964 Q	BAKER RD., HORTH CITY LIMI	TS	VIL.EDHOMO	64	2E	28	SE	W	COUPLE VALVE ON STORAGE TANK BROKE	EDMLMO AGRI CENTER, EDMLMO
10/02/	1987 GASOLINE	15-200 Q	1 MILE FROM DODGEVILLE AT	BRAY	DODGEVILLE						HOLE IN UNDERGROUND TANK WHILE TEST	GET, SUM PRAIRIE
11/17/	1987 GASOLINE	UNICHOUN	UNKNOW		UNKNOUN	6#	3E	27	W	SW	UNDERGROUND LEAK	UNKHOLM
11/28/	1987 DIESEL FUEL	60-100 G	HUY. 151, RED ROOSTER RESTAURANT		UNKHOLM	5 n	3E	31	NE	ME	FUEL LINE BREAK	DUFFY BROS., COLUMBUS
01/26/	1988 DIESEL FUEL	50 G	MAY, 151 AT MINERAL POINT SCHOOL	MI GN	UNKNOW	5 N	36	31	SN	SN	SEMI JACK KNIFED AND HIT POLE	POOLE TRUCK LINE, INC., EVERGREEN, AL
04/10/	1988 DIESEL FUEL	15-25 G	HIGHWAY 151		UNKHOUN	SN	03E	31			UNKNOWN	QUIK-STOP, MINERAL POINT
04/16/	1988 NITROGEN FERTILIZER	500 #	SPREAD 1/2 MI.ON MUY.130 S OF FLOYD RD	ю.	DODGEVILLE	731	3E	29	m	NE	RELEASE ON SPREADER TRIPPED	CLMT PETERSON, JR., DODGEVILLE
08/22/	1968 MOTOR OIL	MINIMAL	CTH K AT W. BR. BLUE MOUND CREEK	\$	BARNEVELD	07	05E	11	SE	SN	UNKNOW	YAHARA MATERIALS INC., WAUNAKEE
08/28/	1988 GAS, AIRPLANE	UNKNOWN	MUY. 23 AT DODGEVILLE MUNICIPAL AIRPORT		DODGEVILLE	64	3E	16	KA	SE	AIRPLANE CRASH	IHEODORE J. BACHMUBER, MAYVILLE
11/30/	1988 BLACK TAR	UNKHOW	CTH I, 1 MILE SOUTH OF HIGHLAND		NIGHLAND	06	01E	04	ME	W	UNKHOUN	CHET SCALES SALVAGE, HIGHLAND
06/21/1	1989 DIESEL FUEL .	60 G	WOMP RADIO STATION FRONT YARD/HU, 151		DODGEVILLE	05	3E	09	SE	SE	TRAFFIC ACCIDENT	JAJ MAIL SERVICE, INC. MADISON
07/14/	1989 GAS, UNLEADED	2,000-3,000 G	OLD MUY. 18-151, W OF STOP LIGHT	•	UNKNOW						LOADING GAS INTO TRUCK SHORT IN TAN	COOP OIL ASSOCIATION, DOUGEVILLE
× 07/28/	1989 GASOLINE	25 Q	JACK'S SERVICE CENTER		DOOGEVILLE	06	03E	27	SW	sw	SHUTOFF VALVE MALFUNCTIONED	THOMAS OIL CO., DODGEVILLE

APPENDIX E

Wisconsin Department of Industry, Labor and Human Relations

For Office Use Only:

UNDERGROUND PETROLEUM PRODUCT TANK INVENTORY

Send Completed Form To: Safety & Buildings Div. Fire Prevention 5 ction P.O. Box 7969 Madison, WI 53707 Telephone (608) 266-7874

Instructions 4

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

This Individual Tank Rejistration Applies 2 Inoperative or abandoned tank with product still in tank To (check one): 3. Inoperative or abandoned tank with no known product in tank 1. Cathoritics 4. Cocation for which tank has been removed S. New tank to be installed (provide date): JUN 1 1 1985 A. IDENTIFICATION 1. Name of Installation Very conditions Street Address of Installation Very conditions	• •	en e	•	.'''
Inoperative or abandoned tank with no known product in tank Location for which tank has been removed RECEIVED	· · · · · · · · · · · · · · · · · · ·	•		
A. IDENTIFICATION 1. Name of Installation Street Address St				
New tank to be installed (provide date): JUN 11 1985				-11/15
A IDENTIFICATION 1. Name of Installation Street Address of Installation Street Address of Installation Street Address of Installation Size			REUI	TI À ED
Street Address of Installation 2. Name for Mailing Address if Different Than #1 SAFETY & BLDGS. DIV.	3. — New talk to be installe	a tprovide date/.	-11111-4-2	1005
Street Address of Installation Street Address of Installation State Zip Code Zip Code County State Zip Code County Street Address State Zip Code County State Zip Code County Telephone Number (include area code) COR - 735 - 3401 S. Fire Department Name and ID # Doog & Uricle Fir			· · · · · · · · · · · · · · · · · · ·	1985
Street Address of Installation Size	<u> </u>	Name for Mailing if Different Th		3LDGS, DIV.
State		Mailing Address if Different Tha		
State	505 N. Iowa	1	and the second second second	. •
State		☐ City ☐ Villa	ge Town of:	
3. Name of Contact Person Street Address Street Address		State	Zip Code Cour	nty
Street Address Street Address Street Address		4 Name of Owner if Different from		
Street Address Street Address Street Address		4. Name of Owner is officient for	π.σ	
State Zip Code County State Zip Code County		Street Address		
State Zip Code County State Zip Code County	_ <u></u>			* * *
Telephone Number (include area code) Telephone Number (include area c	City Village Down of:	City Villag	ge L Town of:	
Telephone Number (include area code) (CR-935-240/ 5. Fire Department Name and ID# 6. Tank Age (date installed, if known; or years old) 7. If Tank Abandoned, Give Date (mo / day / yr; DODG & ULCE FIREDEST. 8. Tank Capacity (in gallons) 9. Tank Manufacturer's Name, if known: (in gallons) 8. TANK CONSTRUCTION: 1. Bare Steel 2. Cathodically Protected Steel 4. Fiber glass 5. Other (specify): C. TANK CONTENTS: 1. Diesel 2. Leaded Casoline 3. Unleaded Casoline 4. Fuel Oil 5. Casolol 6. Other (specify): D. TYPE OF USER (check one): 1. Cas Station 2. Bulk Storage 3. Utility 4. Mercantile 5. Industrial 6. Covernment 7. School 8. Residential 9. Agricultural 10. Other (specify): Date Completed: Add Thomas		State	Zip Code Cour	ity
5. Fire Department Name and ID # 6. Tank Age (date installed, if known; or years old) 7. If Tank Abandoned, Give Date (mo / day / yr; D ODG & CUCCE FIRE DEGT. 8. Tank Capacity In gallons) 9. Tank Manufacturer's Name, if known: In gallons) 9. Tank Manufacturer's Name, if known: In gallons) C Cathodically Protected Steel 4. Fiberglass 5. Other (specify): C TANK CONTENTS: 1. Diesel 4. Diesel 5. Gasohol 6. Other (specify): D. TYPE OF USER (check one): 1. Cas Station 2. Bulk Storage 3. Utility 4. Mercantile 5. Industrial 6. Government 7. School 8. Residential 9. Agricultural 10. Other (specify): Date Completed: Add Manufacturer's Name, if known; or years old) 7. If Tank Abandoned, Give Date (mo / day / yr; 1. A Diesel 3. Coated Steel 3. Coated Steel 4. Mercantile 8. Residential		Telephone Number (include are	a code)	
DODGEVILLE FIREDEGT. 20 965			$\epsilon_{i_1\ldots i_{r-1}\ldots r-1} = \epsilon_{i_1\ldots i_{r-1}\ldots r-1}$	<u> </u>
8. Tank Capacity (in gallons) 3 0 0 8. TANK CONSTRUCTION: 1	5. Fire Department Name and ID # 6. Tank Age (date in	stalled, if known, or years old)	7. If Tank Abandoned, Give	Date (mo / day / yr)
S. Tank Capacity 9. Tank Manufacturer's Name, if known:	Dongevice Fier Dept 0	20 1965		
B. TANK CONSTRUCTION: 1. Bare Steel 2. Cathodically Protected Steel 3. Coated Steel 4. Fiberglass 5. Other (specify): C. TANK CONTENTS: 1. Diesel 2. Leaded Casoline 3. Unleaded Casoline 4. Fuel Oil 5. Casohol 6. Other (specify): D. TYPE OF USER (check one): 1. Casohol 6. Other (specify): Permitted 5. Industrial 6. Covernment 7. School 8. Residential 9. Agricultural 10. Other (specify): Signature of Pirson Completing Form: Signature of Pirson Completing Form: Date Completed: Add Thomas		me. if known:	1.	
1. Bare Steel 4. Fiberglass 5. Other (specify): C. TANK CONTENTS: 1. Diesel 4. Fuel Oil 5. Gasohol 6. Other (specify): D. TYPE OF USER (check one): 1. Gas Station 2. Bulk Storage 5. Industrial 6. Covernment 7. School 8. Residential 9. Agricultural 10. Other (specify): Date Completed: Signature of Parson Completing Form: Date Completed:			\mathcal{F}_{r}	
4. Fiberglass 5. Other (specify): C. TANK CONTENTS: 1. Diesel 2. Leaded Casoline 3. Unleaded Casoline 4. Fuel Oil 5. Casohol 6. Other (specify): D. TYPE OF USER (check one): 1. Cas Station 2. Bulk Storage 3. Utility 4. Mercantile 5. Industrial 6. Covernment 7. School 8. Residential 9. Agricultural 10. Other (specify): Signature of Person Completing Form: Date Completed: 6. Type OF USER (check one): 1. Date Completed: Date Completed:	B. TANK CONSTRUCTION:			
C. TANK CONTENTS: 1.		el	3. Coated Stee	al a la
C. TANK CONTENTS: 1. Diesel 2. Leaded Gasoline 3. Unleaded Gasoline 4. Fuel Oil 5. Gasohol 6. Other (specify): D. 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): Date Completed:	4. LJ Fiberglass 5. LJ Other (specify):		This is a second of the second	4.14
1. Diesel 2. Leaded Gasoline 3. Unleaded Gasoline 4. Fuel Oil 5. Gasohol 6. Other (specify): D. 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): Signature of Parson Completing Form: Date Completed: 6. Other (specify): Date Completed:	C TANK CONTENTS:		- 4 -	:
4. Fuel Oil 5. Gasohol 6. Other (specify): Perm / Lim D. 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): Date Completed: 6. Other (specify): Date Completed:		3 D Unleaded Casoline		i.
D. TYPE OF USER (check one): 1.			Hermin	m
1. Cas Station 2. Bulk Storage 3. Utility 4. Mercantile 5. Industrial 6. Covernment 7. School 8. Residential 9. Agricultural 10. Other (specify): Signature of Person Completing Form: Date Completed: 6 -7-85		o. La owier opeany//		
5. Industrial 6. Government 7. School 8. Residential 9. Agricultural 10. Other (specify): Signature of Parson Completing Form: Date Completed: 6. Government 7. School 8. Residential 9. Date Completed:				
9. Agricultural 10. Other (specify): Signature of Parson Completing Form: Date Completed: 6-7-85				·
Signature of Person Completing Form: Date Completed: 6-7-85		7. School	8. L. Residential	
Soft Thomas 6-7-85.				
	Signature of Person Completing Form:	Date Completed:	7	
	Soft Thomas	2-7-85		
	SBD-7437 (N. 04/65)			

Wisconsin Department of Industry, Labor and Human Relations

For Office Use Or	1y:0 < 692
Tank ID#	"" 25083 1

UNDERGROUND PETROLEUM PRODUCT TANK INVENTORY

Send Completed Form Te Safety & Buildings Div. Fire Prevention Section P.O. Box 7969 Madison, WI 53707 Telephone (608) 266-7874

Instructions

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

	, the Egency designated .	ir tire top rigin co	e de la companya dela companya dela companya dela companya de la companya de la companya de la companya dela companya de la companya de la companya de la companya dela comp
This Individual Tank 1. Tank still in active use		•	
	ned tank with product stil	l in tank	
	ed tank with no known p		
4. Location for which tank		•	RECEIVED
5. New tank to be installed	d (provide date):		
A. IDENTIFICATION		11.00	JUN 1 1 1985
1. Name of Installation	2. Name for Mailing if Differ	ent Than #1	
TERRIN MORKE		ii. SA	FETY & BLDGS DIV.
Street Address of Installation	Mailing Address if Differe		1. 4.116
505 N. 7000			
City Village Town of:	City] Village	Town of:
State Zip Code County	State	Zip Code	County
WI 53533 Form	: ,	•	
3. Name of Contact Person	4. Name of Owner if Differe	nt from #3	
182Ry Dystoc			
Street Address	Street Address		
City Village Town of:	City	Village [Town of:
State Zip Code County.	State	Zip Code	County
651 53533 IOWA			
Telephone Number (include area code)	Telephone Number (inclu	de area code)	
608-935-2401			
5. Fire Department Name and ID # 6. Tank Age (date in	stalled, if known; or years old)	7. If Tank Aban	doned, Cive Date (mo / day / yr)
	1965	-1	
8. Tank Capacity 9. Tank Manufacturer's Nan (in gallons)	ne, if known:		
B. TANK CONSTRUCTION:		1	
1. Bare Steel 2. Cathodically Protected Stee	el	:3. 💢 c	oated Steel
4. Fiberglass 5. Other (specif):			<u></u>
2 7111 201 77			
C. TANK CONTENTS:	1		
1. Diesel 2. Leaded Casoline	3. Unleaded Gaso		
4. L Fuel Oil . 5. L Gasohol	6. Other (specif):		
	or or repeat /		
D. TYPF OF USER (check one):	o, E ouve, open, ,.		·
D. TYPE OF USER (check one): 1. A Gas Station 2. Bulk Storage			ercantile
1. Cas Station 2. Bulk Storage	3. Utility	4. 🔲 M	ercantile
1. Cas Station 2. Bulk Storage		4. 🔲 M	ercantile esidential
1. Cas Station 2. Bulk Storage 5. Industrial 6. Covernment	3. Utility	4. 🔲 M	
1. Cas Station 2. Bulk Storage 5. Industrial 6. Government 9. Agricultural 10. Other (specif):	3. Utility 7. School	4. 🔲 M	



FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Terry's Kerr-McGee (Site No. 4)

PAGE 1 OF 3

DATE: <u>5/20/91</u>

TIME: 11:15 am

DIRECTION OF PHOTOGRAPH:

Southeast

WEATHER CONDITIONS:

Sunny, 80°F

PHOTOGRAPHED BY:

Dena Hargraves

SAMPLE ID: (If Applicable):

N/A



DESCRIPTION: The Terry's Kerr-McGee site.

DATE: <u>5/20/91</u>

TIME: 11:15 am

DIRECTION OF PHOTOGRAPH:

Northwest

WEATHER CONDITIONS:

Sunny, 80°F

PHOTOGRAPHED BY:

Dena Hargraves

SAMPLE ID: (If Applicable):



DESCRIPTION: The Terry's Kerr-McGee site with Spring Street in the foreground

and North Iowa Street to the left of the photograph.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Terry's Kerr-McGee (Site No. 4)

PAGE 2 OF 3

DATE: <u>5/20/91</u>

TIME: __11:15 am

DIRECTION OF PHOTOGRAPH:

North

WEATHER CONDITIONS:

Sunny, 80°F

PHOTOGRAPHED BY:

Dena Hargraves

SAMPLE ID: (If Applicable):

N/A



The Terry's Kerr-McGee site showing the tank bed location in the DESCRIPTION:

center of the photograph.

DATE: 5/28/91

TIME: 6:00 pm

DIRECTION OF PHOTOGRAPH:

Southeast

WEATHER CONDITIONS:

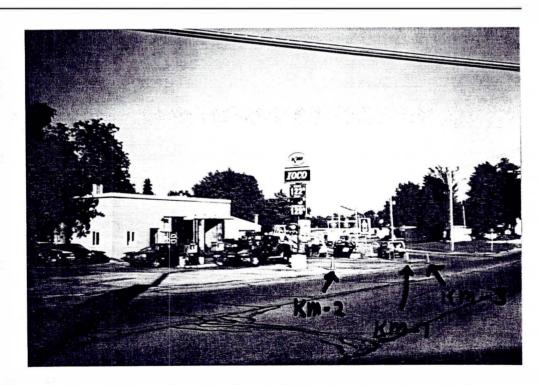
Sunny, 85°F

PHOTOGRAPHED BY:

Dena Hargraves

SAMPLE ID: (If Applicable):

KM-1, KM-2, KM-3



DESCRIPTION: The Terry's Kerr-McGee site showing soil boring locations KM-1,

KM-2, and KM-3. North Iowa Street is in the foreground.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Terry's Kerr-McGee (Site No. 4)

PAGE 3 OF 3

DATE: 5/28/91

TIME: 6:00 pm

DIRECTION OF PHOTOGRAPH:

<u>Southeas</u>t

WEATHER CONDITIONS:

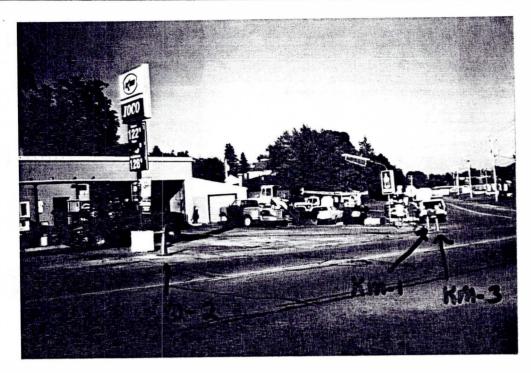
Sunny, 85°F

PHOTOGRAPHED BY:

Dena Hargraves

SAMPLE ID: (If Applicable):

KM-1, KM-2, KM-3



DESCRIPTION: The Terry's Kerr-McGee site showing soil boring locations KM-1,

KM-2, and KM-3. North Iowa Street is in the foreground and Spring Street runs

along the right edge of the photograph.



AQUA-TECHING

HNU Photoionization Detector Calibration Documentation

HNU Photoionization Detector	Number was calibrated
with 101 ppm Isobutylene whi	ch is equivalent in response to
S 🦅 ppm Benzene at a	span setting of 4.08 with a
lO.2 electron volt (eV) lamp.
	11 Fearl Shap # 95641
Calibration Location:	
Date: 5/28/91	Time://;/5
Signature: Desc 74.	

Procedure For Calibration

- A. Battery Check Attach probe to unit. Turn function switch to BATT. The needle should be in the green region. If not, recharge the battery.
- B. Zero Set Instrument should be zeroed on site if possible. Turn function switch to STANDBY. Listen to make sure fan is operating. Set the zero point with the ZERO set control.
- C. Calibration Attach calibration gas to end of probe extension. Adjust SPAN control setting to obtain the necessary meter reading. If meter does not respond, or if the correct reading cannot be adjusted, the unit must be serviced or cleaned

The above calibration procedure is taken from Calibration Procedure, Section 3.4, of the Instruction Manual, Trace Gas Analyzer, HNU Model 101, December, 1985.

APPENDIX H

AQUA-TECHING.

140 South Park Street Port Washington, Wisconsin 53074

TELEPHONE:

(414) 284-5746 (414) 375-0407 (MILW METRO)

SOIL PROFILE LOG

PROJECT:

TERRY'S KERR MCGEE

LOCATION:

505 NORTH IOWA STREET (STH 23) DODGEVILLE, WI

PROJECT#:

5255-04-00

ATI WO#:

95643

DOI	DING YM.	- 1			SURFACE ELEVATION	
BORING KM-1 SAMPLES					BURFACE ELEVATION	
NO.	MOISTURE		PID LEVELS (PPM)	DEPTH (FT)	DESCRIPTION AND REMARKS	
	(BLOWS)		HEADSPACE			
				0.0	0.0' - 1.0' BLACKTOP, CEMENT 1.0' - 2.0' TAN/DARK BROWN SILTY SAND,	
	DRY 7 9 6	34	0		MOTTLING 2.0' - 2.5' BROWN SILTY SAND	
	DRY 4 7 7		6		2.5' - 3.0' REMNANTS OF OLD BLACKTOP/CEMENT 3.0' - 4.0' TAN FINE TO MEDIUM GRAINED SAND 4.0' - 8.0' BROWN SILTY CLAY	
	DRY 2 3 2		56	5.0	4.0 - 6.0 BROWN SILII CLAI	
KM-1 KMGW-1	MOIST 8 4 5		100	lacksquare		
	MOIST 3 1 2		95		8.0' - 8.5' ORANGE/TAN MEDIUM GRAINED SAND 8.5' - 9.5' ORANGE MEDIUM GRAINED SAND	
	WET 3 4 15		11	10.0	10.0	9.5' - 11.0' BEIGE FINE GRAINED SAND TO A SILTY CLAY
	WET 17 50 -	Ser Pro	13	11.5	11.0' - 11.5' TAN WEATHERED SANDSTONE	
				15.0	TERMINATED BORING AT 11.5' (BEDROCK) *SGIL SAMPLE KM-1: 5.5' - 7.0' (TPH) *GROUNDWATER SAMPLE KMGW-1: 5.9' (BTEX) HEADSPACE = 32 PPM	
WATER I	LEVEL OBSE	ERVAT	TIONS		RAL INFORMATION	
					TE 05/28/91 COMPLETION DATE 05/28/91	
DEPTH TO WATER 5.9'▼ DRILLING				ILLING	METHOD: HOLLOW STEM AUGERS; SPLIT SPOON SAMPLING	

WELL/DRILLHOLE/BOREHOLE ABANDONMENT Form 3300-5W 11-89

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(2) FACILITY NAME
Original Well Owner (If Known)
Present Well Owner
Street or Route
City, State, Zip Code
Facility Well No. and/or Name (If Applicable) WI Unique Well No.
Reason For Abandonment
Soil Tryt Borings Date of Abandonment
·5/28/91
(4) Depth to Water (Feet) 5.9 /
(4) Depth to Water (Feet)
Liner(s) Removed? Yes No Not Applicable
Screen Removed? Yes No Not Amplicable
Casing Left in Place? Yes No
If No, Explain
Was Casing Cut Off Below Surface? Yes No
Did Sealing Material Rise to Surface? Yes No
Did Material Settle After 24 Hours? Yes No
If Yes, Was Hole Retopped? Yes No
(5) Required Method of Placing Sealing Material
Conductor Pipe-Gravity Conductor Pipe-Pumped Dump Bailer Other (Explain)
(6) Sealing Maierials For monitoring wells and
Neat Cement Grout monitoring well boreholes only
Send-Cernent (Concrete) Grout
Concrete Bentonite Pellets
Clay-Sand Slurry Granular Bentonite Bentonite-Sand Slurry Bentonite - Cement Grout
Bentonite - Cement Prout
No. Yards,
From (Fi.) To (Fi.) Sarks Sealant Mix Ratio or Mud Weight or Volume
Surface 11.5
(10) FOR DNR OR COUNTY USE ONLY
Date Received/Inspected District/County
Reviewer/Inspector
Follow-up Necessary

AQUA-TECHING

140 South Park Street
Port Washington, Wisconsin 53074

TELEPHONE:

(414) 284-5746 (414) 375-0407 (MILW METRO)

SOIL PROFILE LOG

PROJECT: TERRY'S KERR MCGEE

505 NORTH IOWA STREET (STH 23) DODGEVILLE, WI LOCATION:

5255-04-00 PROJECT#:

ATI WO: 95643

ВО	RING <u>KM</u> -	-2			SURFACE ELEVATION
	SAMP	LE	s	1.	
NO.	MOISTURE	REC	PID LEVELS (PPM)	DEPTH (FT)	DESCRIPTION AND REMARKS
	(BLOWS)	L V	HEADSPACE	-0.0-	
				0.0	0.0' - 1.0' CEMENT 1.0' - 4.0' BROWN SILTY SAND W/SOME GRAVEL
	DRY 6 4 7		0		1.0 4.0 BROWN SIBII SAND WYSOME GRAVED
	DRY 5 5 3		0		4.0' - 5.0' GREY/BROWN SILTY SAND W/SOME
	MOIST 2 3 3		0	5.0	MOTTLING 5.0' - 5.5' ORANGE/BRN MEDIUM SAND, MOTTLING 5.5' - 6.0' GREY BROWN SILTY SAND
	MOIST 3 2 4		1	=	6.0' - 6.5' ORANGE/BROWN MEDIUM GRAINED SAND 6.5' - 11.0' BLACK SILTY CLAY
KM-2	MOIST 2 2 3		5	y ∇ =	
KMGW-2	WET 1 1 1		8	10.0	
	WET 1 1 2		5	11.5	11.0' - 11.5' TAN MEDIUM GRAINED SAND
				11.5	TERMINATED BORING AT 11.5'
					*SOIL SAMPLE KM-2: 7.0' - 8.5' (TPH) *GROUNDWATER SAMPLE KMGW-2: 9.0' (BTEX) HEADSPACE = 4 PPM
ja Pr				15.0	
					·
				_	
				20.0	
*				20.0	
_				25.0	
WATER I	LEVEL OBSE	ERVAT	TIONS	GENER	RAL INFORMATION
WHILE I	RILLING	_8.	<u>5'</u> ∇ STA	ART DAT	TE <u>05/28/91</u> COMPLETION DATE <u>05/28/91</u>
DEPTH 7	O WATER	_9.			METHOD: HOLLOW STEM AUGERS; SPLIT SPOON SAMPLING
DEPTH 7	O CAVE-IN	<u></u>	<u></u> Loc	GGER: _	Den The Hyperity

WELL/DRILLHOLE/BOREHOLE ABANDONMENT Form 3300-5W 11-89

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(I) GENERAL INFORMATION	(2) FACILITY NAME					
Well/Drillhole/Boschole County	Original Well Owner (If Known)					
Location Km-2 Iowa						
⊠ E	Present Well Owner					
νω 1/4 of Sω 1/4 of Sω. 27 ; T. 6 N; R. 3 W						
(If explicable)	Street or Roule					
Gov't Lot Grid Number						
Grid Location	City, State, Zip Code					
ft. N. S., ft. E. W.	The state of the s					
Civil Town Name	Facility Well No. and/or Name (II Applicable) WI Unique Well No.					
) TT 1.	Kvn - 2					
Street Address of Well						
Sus North Iowa Street (STH 23) City, Village	Soil Test Boring					
· · · · · · · · · · · · · · · · · · ·	Date of Additionment 5/28/91					
WELL/DRILLHOLE/BOREHOLE INFORMATION	7/28/91					
	(4) Depth to Water (Feet) 9.0					
(Daie) 5/28/91						
Communica Person Available?						
☐ Monitoring Well Construction Report Available? ☐ Water Well ☑ Yes Ŋo	Screen Removed? Yes No Not Applicable Casing Left in Place? Yes No					
	If No, Explain					
Drillhole Soil Profile to g	11 -10, 12 / 12 / 12					
☐ Sorehole	Was Casing Cut Off Below Surface? Yes No					
Construction Type:	Did Sealing Material Rise to Surface? Yes No					
Construction Type: Drilled Driven (Sandpoint) Dug	Did Material Settle After 24 Hours? Tes No					
Oher (Specify)	If Yes, Was Hole Retopped? Yes No					
Formation Type:	(5) Required Method of Placing Sealing Material					
Unconsolidated Formation Best Sek	Conductor Pipe-Gravity Conductor Pipe-Pumped					
	Dump Bailer Other (Explain)					
	(6) Sealing Materials For monitoring wells and					
(From ಕ್ಷಾಂಟಾಡೇಟ್, ಹಾಂ)	Neat Cement Grout monitoring well boreholes only					
	Send-Cement (Concrete) Grout Concrete! Bentonite Pellets					
Casing Depth (ft.) <u>N/A</u>	☐ Concrete ☐ Bentonite Pellets ☐ Clay-Sand Slurry ☐ Granular Bentonite					
Was Well Annular Space Grouted? Yes No Unknown						
Was Well Annular Space Grouted? Yes No Unknown If Yes, To What Depth?	☐ Bentonite-Sand Slurry ☐ Bentonite - Cement Grout					
	☐ Chipped Bentonite					
(7) Sealing Material Used	From (Ft.) To (Ft.) Sacks Sealant Mix Ratio or Mud Weight					
	or Volume					
- · · · · · · · · · · · · · · · · · · ·	Surface					
Bentonite Hole Plug	11.5					
	. [] - [
	<u> </u>					
(3) Comments:						
(9) Name of Person or Firm Doing Sealing Work	(10) FOR DNR OR COUNTY USE ONLY					
	Date Received/Impected District/County					
Denne M. Harrescences / Hymre- Tech, Inc. Signature of Person Doing Work Date Signed	1					
	Reviewa Inspector					
Street or Route Telephone Number						
1.7	T-11:					
140 5. Parte St- (414) 284-5746 City, State, Zip Code	Follow-up Necessary					

AQUA-TECHING.

140 South Park Street Port Washington, Wisconsin 53074

TELEPHONE:

(414) 284-5746 (414) 375-0407 (MILW METRO)

6.0'

6.0'

START DATE

LOGGER:

05/28/91

COMPLETION DATE

DRILLING METHOD: HOLLOW STEM AUGERS; SPLIT SPOON SAMPLING

05/28/91

WHILE DRILLING

DEPTH TO WATER

DEPTH TO CAVE-IN _---

SOIL PROFILE LOG

PROJECT:

TERRY'S KERR MCGEE

LOCATION:

505 NORTH IOWA STREET (STH 23) DODGEVILLE, WI

PROJECT#:

5255-04-00

ATI WO#:

95643

SAMPLES NO. MOISTURE REC PID LEVELS DEPTH (FPM) (BLOWS) HEADSPACE DRY 5 14 13 1 1	BORING <u>KM-3</u>		SURFACE ELEVATION
NO. MOISTURE REC PID LEVELS DEPTH DESCRIPTION AND REMARKS			
DRY 1 1	NO. MOISTURE REC (PPM	VELS DEPTH	DESCRIPTION AND REMARKS
DRY 1	(BLOWS) HEADS	PACE	
DRY 5 6 9 2 2 3.0' - 3.5' GRAVEL W/WEATHERED SANDSTONE BLACK/BROWN SILTY (LAY W/SAND 4.0' - 5.0' BROWN SILTY SAND W/SOME MOTTLING 5.0' - 7.5' BROWN SILTY SAND TO THE BROWN SILTY SAND 5.0' - 7.5' BROWN SILTY SAND TO THE BROWN SILTY SAND TO THE BROWN SILTY SAND, SOME MOTTLING 5.0' BROWN SILTY SAND 5.0' BROWN SIL	DRY 1	0.0	0.5' - 3.0' BROWN SILTY SAND W/SOME MOTTLING
MOIST 16 7.5' - 8.0' TAN WEATHERED SANDSTONE 8.0' - 10.0' BROWN SILTY SAND SOME MOTTLING SANDSTONE 8.0' - 10.0' BROWN SILTY SAND, SOME MOTTLING SANDSTONE 8.0' - 10.0' BROWN SILTY SAND, SOME MOTTLING SANDLE WHIST S.5' - 7.0' (TPH) HOSPINGE SANDLE WISH-3: 5.5' - 7.0' (TPH) HOSPINGE SANDLE WISH-3: 6.0' (BTEX) HOSPINGE - 1 PPH 15.0' SANDLE WISH-3: 6.0' (BTEX) HOSPINGE - 1 PPH 15.0' SANDLE WISH-3: 6.0' (BTEX) HOSPINGE - 1 PPH SANDLE WISH-3: 6.0' (BTEX) SANDL	DRY 2		3.0' - 3.5' GRAVEL W/WEATHERED SANDSTONE 3.5' - 4.0' BLACK/BROWN SILTY CLAY W/SAND 4.0' - 5.0' BROWN SILTY SAND W/SOME MOTTLING
MOIST 4 4 2 2	DRY 4 6 6	5.0	& WEATHERED ROCK 5.0' - 7.5' BROWN SILTY SAND
#ET 1 3 3	KM-3 MOIST 16		
TERMINATED BORING AT 10.0' *SOIL SAMPLE KM-3: 5.5' - 7.0' (TPH) *GROUNDWATER SAMPLE KMSW-3: 6.0' (BTEX) H ADSPACE = 1 PPM 20.00	MOIST 2		7.5' - 8.0' TAN WEATHERED SANDSTONE 8.0' - 10.0' BROWN SILTY SAND, SOME MOTTLING
TERMINATED BORING AT 10.0' *SOIL SAMPLE KM-3: 5.5' - 7.0' (TPH) *GROUNDWATER SAMPLE MISW-3: 6.0' (BTEX) H ADSPACE = 1 PPM 20.0	1 3 3 1	10 0	
WATER LEVEL OBSERVATIONS GENERAL INFORMATION	WATER LEVEL ORSERVATIONS	20.0	*SDIL SAMPLE KM-3: 5.5' - 7.0' (TPH) *GROUNDWATER SAMPLE KMGW-3: 6.0' (BTEX) H ADSPACE = 1 PPM

State of Wisconsin Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT Form 3300-SW 11-89

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 112 or NR 141, Wis. Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION	(2) FACILITY NAME
Well-Drillhole-Borehole County Location 14m - 3 Torco	Original Well Owner (If Known)
νω 1/4 of <u>Su</u> 1/4 of Sec. <u>27</u> ; T. <u>6</u> N; R. <u>3</u> W	Present Well Owner
(L' குரு beable) Gov't Lot Good Number	Street or Route
Grid Location	City, State, Zip Code
fi. N. S.,fi. E. W.	
Civil Town Name	Facility Well No. and/or Name (II Applicable) WI Unique Well No.
Steel Adtess of Well	Reason For Abandonment
505 North Iowa Street (STH 23)	Soil test Bornie
City, Village	Date of Abandorument
City of Dodceville	5/28/91
WELL/DRILLHOLE/BOREHOLE INFORMATION	and December 1997
(3) Original Welli/Drillhole/Borehole Construction Completed On	(4) Depth to Water (Feet) 6.0
(Date) 5/2 8 /c1 (Pump & Piping Removed? Yes No Not Applicable
Monitoring Well Construction Report Available?	Liner(s) Removed? Yes No Not Applicable Screen Removed? Yes No Not Applicable
☐ Monitoring Well Construction Report Available? ☐ Water Well	Screen Removed? Casing Left in Place? Yes No No Not Applicable
T Daw at	If No, Explain
Borehole Soil Profile log	•
- Committee of the comm	Was Casing Cut Off Below Surface? Yes No
Construction Type:	Did Sealing Material Rise to Surface? Yes 🔲 🕦
Drilled Driven (Sznépoint) Dug	Did Material Settle After 24 Hours? Yes No
Other (Specify)	If Yes, Was Hole Retopped? Yes No
Formetion Type:	(5) Required Method of Planing Sealing Material
Unconsolidated Formation Bedrock	Conductor Pipe-Gravity Conductor Pipe-Pumped
_	Demp Bailer Other (Explain)
Total Well Depth (ft.) 10.0 Cesing Diameter (ins.) 10/14	(6) Sealing Materials For monitoring wells and
(ಗಾಗ ರಂಪಾರೇಷ್ ಜೀ)	Near Cement Grout monitoring well boreholes only
Casing Depth (ft.) N/19	Sand-Cernent (Concrete) Grout Concrete Bentonite Pellets
Casas Debu (ir.)	Clay-Sand Slumy Granular Bentonite
Was Well Annular Space Grouted? Yes No Unknown	
If Yes, To What Depth? - Feet	Chipped Bentonite
()	No. Yards. 1
Sealing Material Used	From (Ft.) To (Ft.) Sanks Sealant Mix Ratio or Mud Weight or Volume
Bentonite Hole Plus	Surface 10.0
Bententia Tible Tide	10.0
	+3
(8) Comments:	
(9) Name of Person or Firm Doing Sealing Work	(10) FOR DNR OR COUNTY USE ONLY
	Date Received Inspected District/County
Signature of Person Downs Work Date Signed	District Only
	Reviewer/Inspector
Street or Route Telephone Number	
140.5, Park St. (44) 264-5746 City, State, Zip Code	Follow-up Necessary
City, State, Zip Code	•



AQUA-TECHINC.

140 S. Park St. Post Woulder

CHAIN OF CUSTODY RECORD PAGE ____ OF ___

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						9.5							A	H/ E//	// F	reserv	ed (Code)
PROJ. NO	PF	ROJEC	TNAME			Contain					_	Y	4/	1////	Refri	gerated	(Yes/No)
95643 Terry's Kear Mibre				nebee	8					/6,	/6/	6/		Sample type (Grab/C	omposite)	
SAMPLERS: (Sign	ature)								_	/,,,	Y.,./	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		Sam	nple sources (WW	, GW, I	OW, other)
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ATI	Yr <u>''ı</u>					Total		104		9/ _X	¥	/,	/,	Analysis	B - HNO3 C - H ₂ SO4	Ĕ-H	ČL
Lab No.	Date	Time		Sample Sta	ation ID 9106.017	٢	/	<u>Y</u>		<u>Z</u>	\angle	\angle	\angle	Hun	Comments:		
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113180	5/28	6:00	Kin	-3 (5,5-7.0')	1	X	乂						16	501	<u> </u>	120
1/3/8/	5/22	6.15	Kmo	w-3 (6.0	3			X					/	WA	10R	4 ml
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414-498-2222 FAX: 414-498-4067

Green Ray, WI 54307-2435

- SAMPLE ANALYSIS REPORT -

To: AQUA-TECH

140 S PARK ST

PORT WASHINGTON WI 53074

Attn: DENA HARGRAVES

Batch ID : 9106017

Our lab # : 113176 Report Date: 06/11/91

Your sample ID: KM-1 5.5-7.0

Sample Matrix : SOIL

COLLECTION INFORMATION

Date/Time/By: 05/28/91 15:10 D M H

Location : TERRY'S KERR MCGEE

Lab# Test Result Units 113176 Total Solids 77.1 %

Signed

Date

P.O. Box 12435

LABORATORY ANALYSIS RESULTS

Wisconsin Certification No. 405099530

Client: AQUA-TECH

Address: 140 S PARK ST

PORT WASHINGTON, WI 53074

Sample ID: KM-1 5.5-7.0 Date Collected: 05/28/91 Date Received: 06/04/91

Location: TERRY'S KERR MCGEE

Attn: DENA HARGRAVES

Telephone No.: (414) 284-5746

CALIFORNIA METHOD TPH ANALYSIS

PARAMETER	DETECTION LIMIT	CONCENTRATION	* UNITS
Kerosene	5.0	ND	mg/kg
Gasoline	5.0	173.7	mg/kg
Diesel	5.0	ND	mg/kg

ND = Not detected

Comments

Lab Sample ID: 9106017:113176

Date Analyzed: 06/05/91

Analyzed by GC/FID on a DB-5 Capillary column

Signed:	D. Sand	Date: 6-1/-9/

^{* =} Dry Weight Basis

414-498-2222 FAX: 414-498-4067 P.O. Box 12435

2496 West Mason Street

CLIENT: AQUA TECH

ADDRESS: 140 S PARK STREET

Wisconsin Certification No.

405099530

PORT WASHINGTON WI 53074

Sample ID: KMGW-1

Sample Desc: TERRY'S KERR

MCGEE

TELEPHONE: (414) 289-5796

ATTENTION: DENA HARGRAVES

Date Collected: 05/28/91

Date Received: 06/04/91

Job #: 95643

VOLATILE ORGANIC WATER ANALYSIS

PARAMETER	DETECTION LIMIT	CONCENTRATION	UNITS
Benzene	200	25,000	ug/l
Ethylbenzene	200	4,700	ug/l
Toluene	200	6,300	ug/l
Total Xylenes	600	14,000	ug/l

ND = Not Detected

Comments: Lab Sample ID: 9106017 - 113177

Date Analyzed: 06/05/91, 06/06/91 and 06/10/91

Analyzed by GC Method 8020

Date: 6-20-91

2496 West Mason Street

414-498-2222 FAX: 414-498-4067

Report Date: 06/11/91

- SAMPLE ANALYSIS REPORT -

To: AQUA-TECH

140 S PARK ST

PORT WASHINGTON WI 53074

Attn: DENA HARGRAVES

Batch ID : 9106017 Our lab # : 113178

Your sample ID: KM-2 (7.0-8.5')

Sample Matrix : SOIL

COLLECTION INFORMATION

Date/Time/By: 05/28/91 17:00 D M H

Location : TERRY'S KERR MCGEE

Lab# Test Result Units 113178 Total Solids 73.3 %

Signed Date



LABORATORY ANALYSIS RESULTS

Wisconsin Certification No. 405099530

Client: AQUA-TECH

Attn: DENA HARGRAVES

Address: 140 S PARK ST

PORT WASHINGTON, WI 53074

Sample ID: KM-2 (7.0-8.5')
Date Collected: 05/28/91

Date Received: 06/04/91

Location: TERRY'S KERR MCGEE

Telephone No.: (414) 284-5746

CALIFORNIA METHOD TPH ANALYSIS

PARAMETER	DETECTION LIMIT	CONCENTRATION	* UNITS
Kerosene	5.0	ND	mg/kg
Gasoline	5.0	ND	mg/kg
Diesel	5.0	ND	mg/kg

ND = Not detected

Comments

Lab Sample ID: 9106017:113178

Date Analyzed: 06/05/91

Analyzed by GC/FID on a DB-5 Capillary column

Signed: 1). khulh Date: 6-11-9,

^{* =} Dry Weight Basis

2496 West Mason Street

AQUA TECH CLIENT:

ADDRESS: 140 S PARK STREET

PORT WASHINGTON WI 53074

Sample ID: KMGW-2

Sample Desc: TERRY'S KERR

Wisconsin Certification No.

MCGEE

ATTENTION: DENA HARGRAVES

TELEPHONE: (414) 289-5796

Date Collected: 05/28/91 Date Received: 06/04/91

Job #: 95643

405099530

VOLATILE ORGANIC WATER ANALYSIS

PARAMETER	DETECTION LIMIT	CONCENTRATION	UNITS
Benzene	1.0	2.6	ug/l
Ethylbenzene	1.0	1.6	ug/l
Toluene	1.0	1.3	ug/l
Total Xylenes	3.0	4.2	ug/l

ND = Not Detected

Lab Sample ID: 9106017 - 113179 Comments:

Date Analyzed: 06/05/91 Analyzed by GC Method 8020

Signed:

Date: 6-20-91

Report Date: 06/11/91



P.O. Sec 1245

- SAMPLE ANALYSIS REPORT -

To: AQUA-TECH

140 S PARK ST

PORT WASHINGTON WI 53074

Attn: DENA HARGRAVES

Batch ID : 9106017 Our lab # : 113180

Your sample ID: KM-3(5.5-7.0) Sample Matrix: SOIL

COLLECTION INFORMATION

Date/Time/By: 05/28/91 18:00 D M H

Location : TERRY'S KERR MCGEE

Lab# Test Result Units 113180 Total Solids 78.9 %

Signed Date P.O. Box 12435

Green Bay, WI 54307-2435

LABORATORY ANALYSIS RESULTS

Wisconsin Certification No. 405099530

Client: AQUA-TECH

Address: 140 S PARK ST

PORT WASHINGTON, WI 53074

Sample ID: KM-3(5.5-7.0)
Date Collected: 05/28/91

Date Received: 06/04/91

Location: TERRY'S KERR MCGEE

Attn: DENA HARGRAVES

Telephone No.: (414) 284-5746

CALIFORNIA METHOD TPH ANALYSIS

PARAMETER	DETECTION LIMIT	CONCENTRATION	* UNITS	w 193
Kerosene	5.0	ND	mg/kg	
Gasoline	5.0	ND	mg/kg	
Diesel	5.0	ND	mg/kg	

ND = Not detected
* = Dry Weight Basis

Comments

Lab Sample ID: 9106017:113180

Date Analyzed: 06/05/91

Analyzed by GC/FID on a DB-5 Capillary column

Signed: Date: 6-11-91

414-498-2222 FAX: 414-498-4067

P.O. Box 12435

Green Bay, WI 54307-2435

CLIENT:

AQUA TECH

ADDRESS: 140 S PARK STREET

PORT WASHINGTON WI 53074 Wisconsin Certification No.

405099530

Sample ID: KMGW-3

Sample Desc: TERRY'S KERR

MCGEE

ATTENTION: DENA HARGRAVES

TELEPHONE: (414) 289-5796

Date Collected: 05/28/91

Date Received: 06/04/91

Job #: 95643

VOLATILE ORGANIC WATER ANALYSIS

PARAMETER	DETECTION LIMIT	CONCENTRATION	UNITS
Benzene	1.0	91.0	ug/l
Ethylbenzene	1.0	1.6	ug/l
Toluene	1.0	ND	ug/l
Total Xylenes	3.0	ир	ug/l

ND = Not Detected

Comments: Lab Sample ID: 9106017 - 113181

Date Analyzed: 06/05/91 Analyzed by GC Method 8020

Date: 6-20-91