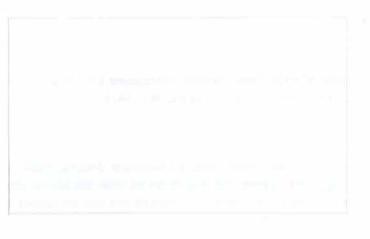
9-16-94



My Service States of the State







State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

George E. Meyer Secretary

February 9, 1995

David Tice Fisher-Hamilton Scientific PO Box 137 Two Rivers WI 54241

SUBJECT:

Underground Storage Tank Closure Assessment for Fisher-Hamilton

Scientific, 1316 18th St., Two Rivers, WI 54241

Dear Mr. Tice:

The Department has reviewed the additional closure assessment documentation for the 1000 gallon Benzene underground storage tank system that was removed from the above-referenced property on September 16, 1994. The purpose of this letter it to inform you that no further action is required at this time.

I have reviewed the additional documentation and determined that the assessment complies with the applicable closure guidance and contains no evidence of a release above current action or cleanup guidelines. Based on the information available, the Department is not requiring any further investigation or other action at this time. However, if additional information in the future indicates that further investigation or cleanup is warranted, the Department will require that appropriate action be taken at that time.

You should note that this letter does not constitute Department "certification" under s. 144.765 (2) (a) 3, Stats., as created by 1993 Wisconsin Act 453 (May 12, 1994). Persons who meet the definition of "purchaser" in s. 144.765 (1) (c) must receive Department pre-approval prior to conducting a site investigation in order to be eligible for the liability exemption under s. 144.765, Stats. If you are interested in obtaining the protection of limited liability under s. 144.765, Stats., please contact Mark Giesfeldt at (608) 267-7562 or Darsi Foss at (608) 267-6713, at the above address for more information.

Removing underground storage tanks helps protect Wisconsin's citizens and environment from the hazards posed by petroleum contamination. The Department appreciates your cooperation in this matter. If you have any questions about this letter, please call me at (608) 264-8597.

Sincerely,

William J. LeFevre, Waste Management Specialist

Tank Response Unit

Bureau of Solid & Hazardous Waste Management

cc: DNR Lake Michigan District

Terry Freudenrich - Superior Haz Waste Group, PO Box 1249, Sheboygan, WI 53082-1249





2905 PAINE AVE., P.O. BOX 1249 SHEBOYGAN, WI 53082-1249

January 20, 1995

William J. LeFevre
Waste Management Specialist
Tank Response Unit, WDNR
101 South Webster Street, Box 7921
Madison, Wisconsin 53707

RE: Re-Assessment for Tank Closure Fisher-Hamilton Scientific, Two Rivers

Dear Mr. LeFevre:

In response to directives received from the WDNR (23 Nov 94) the following actions have been taken and are now being reported:

Mr. Terry Freudenrich of Superior Services informed the agency, phone calls to William LeFevre, of the scheduled re-sampling of soils in late December '94 and summarized the sampling activities upon their completion in early January '95.

The samples were taken on either end of the now removed underground tank at a depth greater than the original tank removal excavation. The soil sampled was undistributed native alluvial sand. Sampling was done in the presence of Bill Lantz a registered State of Wisconsin, Professional Engineer. Terry Freudenrich was the site assessor, IHLR Certification 00859. Sampling location drawings attached.

The collected samples were transferred under chain-of-custody to En Chem, Inc. where analyses (PVOC) were preformed and reported. Chain-of-Custody and Lab Reports attached.

Upon receipt of lab results, the test portals were closed using a lean cement/bentonite slurry with an bituminous concrete cap.

It is the recommendation of Superior Services, that the referenced tank be granted closure. This recommendation is based on the following pertinent facts:

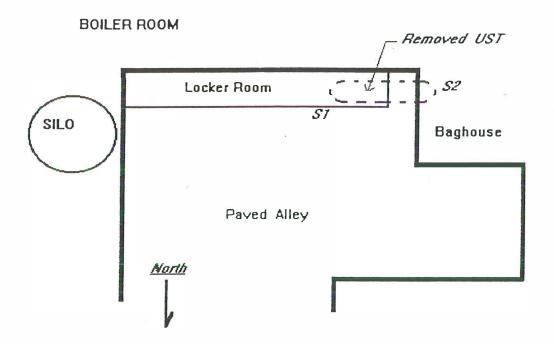
The site is in an industrial-use zone.

The tank was removed and no visual contamination was noted, and

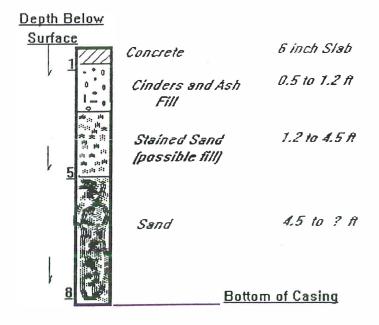
Re-sampling of soils has occurred and the analyses reports no detect on Benzene. In the event that the Agency requires additional information or clarification regarding the site or actions taken, please contact the undersigned at your convenience.

Respectfully submitted,

Terry Freudenrich (414) 458-6030



Soil Profile @ Sample Portals



Sampled between 8 to 10 ft



CHAIN OF CUSTODY RECORD LUST PROGRAM Based on Form 4400-151 Rev. 4-93 -لادلار

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

ple Collector(s) WILLIAM LANTZ							Title/Work Station/Company AGENDA INTERNATIONAL INC. 414-451-9141									2)		
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P.O. BOX 500						-	***************************************		Split samples:	Offer Accep		_ yes _ yes	no	(Check o				
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PROJ. MGA - TORRY FREVOGURIC						:H)	Proj # 9501030											



BIZ

1795 Indi: Green B \ 414_(68) 800-7-12\

FAX: 414-461-1827

Lab Certification No. 405132750
Location : FISCHER-HAMILTON

Your Sample ID: SS-H2

Sample Desc. : INSIDE BORING SAMPLE

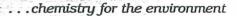
Sample Matrix : SOIL Date Collected: 01/03/1995
En Chem Proj# : 9501030 Date Received : 01/05/1995
En Chem Lab # : 132137 Date Reported : 01/10/1995

Report to: ACENDA INTERNATIONAL ENVIRONMENTAL ENGIN
465 NILL STREET
KONLER, WI 53044

Bill to: SUPERIOR HAZARDOUS WASTE GROUP, INC.

		,							
Analysis	Parameter	Result	Units	Detection Limit	Prep Method	Prep Date	Analysis Method	Analysis Date	Analyze By
TOTSOLID	Total Solids	94	Percent				EPA 160.3	01/06/1995	5 NJS
PVOC-S	Benzene	ND	ug/kg	1.1	SW846 5030	01/06/1995	SW846 8260	01/06/1995	5 JJB
	Ethyl Benzene	ND	ug/kg	1.1					
	Methyl-tert-butyl ether	ND	ug/kg	1.1					
	Toluene	ND	ug/kg	1.1					
	1,2,4-trimethylbenzene	ND	ug/kg	1.1					
	1,3,5-trimethylbenzene	ND	ug/kg	1.1					
	Xylenes, m + p	ND	ug/kg	1.1					
	Xylene, o	ND	ug/kg	1.1					

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





1795 Industrial Drive Green Bay, WI 54302 414-469-2436

800-7-ENCHEM FAX: 414-469-8827 Lab Certification No. 405132750
Location : FISCHER-HAMILTON

Your Sample ID: SS-H1

Sample Desc. : OUTSIDE BORING SAMPLE

Sample Matrix : SOIL Date Collected: 01/03/1995
En Chem Proj# : 9501030 Date Received : 01/05/1995
En Chem Lab # : 132136 Date Reported : 01/10/1995

Report to: AGENDA INTERNATIONAL ENVIRONMENTAL ENGIN

465 HILL STREET KOHLER, WI 53044

Bill to: SUPERIOR HAZARDOUS WASTE GROUP, INC.

Analysis	Parameter	Result	Units	Detection Limit	Prep Method	Prep Date	Analysis Method	Analysis Date	Analyze By
TOTSOLID	Total Solids	97	Percent		•••••	•	EPA 160.3	01/06/1995	S NJS
PVOC-S	Benzene	ND	ug/kg	1.0	SW846 5030	01/06/1995	SW846 8260	01/06/1995	5 JJB
	Ethyl Benzene	ND	ug/kg	1.0					
	Methyl-tert-butyl ether	ND	ug/kg	1.0					
	Toluene	1.4	ug/kg	1.0					
	1,2,4-trimethylbenzene	3.4	ug/kg	1.0					
	1,3,5-trimethylbenzene	1.0	ug/kg	1.0					
	Xylenes, m + p	4.7	ug/kg	1.0					
	Xylene, o	1.8	ug/kg	1.0					

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

These results have been reviewed and their authenticity verified by:

ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.

8i00 North Austin Avenue Morton Grove, Illinois 50053-3203 708/967-5565 FAX: 708/967-6735

Analytical Services Consulting NPDES Pretreatment

Sanitary District Testing Storm Water User Charge

FAX TRANSMISSION NOTICE

c A	(608) 267-2768 Dase:
י נש	To: Mc Bill Leterre
	Sender: Bul Salahan
	You should receive pages, including this notice. If you do not receive all pages, please call the scuder immediately. This transmission includes:
	comments: Please Cell If you have any guestions of thanks Reel
367	

Our FAX Number is: (708) 967-6735

THIS MESSAGE IS INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY TO WHICH IT IS ADDRESSED AND MAY CONTAIN INFORMATION THAT IS PRIVILEGED, CONFIDENTIAL AND EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW. IF THE READER OF THIS MESSAGE IS NOT THE INTENDED RECIPIENT, YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION OR COPYING OF THIS COMMUNICATION IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS COMMUNICATION IN ERROR, PLEASE NOTIFY US IMMEDIATELY, BY TELEPHONE AND RETURN THE ORIGINAL MESSAGE TO US AT THE ABOVE ADDRESS VIA THE U.S. POSTAL SERVICE. THANK YOU.

1	Fisher Hamilton Scientific
	11/18 12:00 (708) 967-6666
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	probably: Transferetto cooler in Enchen sayplen.
1	Recieved 9/19/94 Analysed sampe day
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	- enchen soyders analyse
1	12/23/44 MAG FRANCE
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	were analysed.
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1	
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1	(5) En cor samplers transfered to cooler upon recount by EMT LAB.
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1	(a) further documentation at laborecient date well
1	(e) further documentation of lab Recient date well be faxed.
	11/21/24 10 12/00 Terry Franchastik (In called was)
1	11/18 13:00 Superior Haz WST. Group (414) 284-9101
1	Karen Kochler message
	SALLENA LA LES DISSARIES LA
	13:10 Knew returns call "Oh, That tank" STV Kuchl
	Dranne Boh Cgiboten 3 1800-688.4005 Jim Kvester 3
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CO Ja

5070 Bonnyan 2415 500 E

11/18 Leon? - Terry Frewburrich O Superior

Schools gund dys suples two methods of collection

affind to resample!!!

Lim Kvester will call me.

11 /21/34 11/20 Terry French ruch (be called use)

- Ship directly to Ermst but not next day so ice mult

- Agrees with letter from Ernst.

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- will simple up hand a vager at Both bulkheads

outside on border of orriginal execution to notice

- Expects letter.

12/16/94 11:48 MSG From Teny
planning on collecting supples
rest neck weather permitting

12/23/44 M34 FRIN Terry.

1/5/55 Talked in Terry: Surplus collected >
in the lub. Report as soon as results.

Bill sheehan @ Environmeter Monitoring sTachnotogo, gretably: Transfered to cooler in En then singles.

1/18 12:00 (708) 967-66666

Figher - Homitton Sciantifile

ENVIRONMENTAL MONITORING AND TECHNOLOGIES. INC.

8100 North Austin Avenue Morton Grove, Illinols 60053-3203 708-967-6666 FAX: 708-967-6735

Laboratory Services Mobile Laboratory Services Source Emissions Waste Characterization (RCRA) Wastewater Compliance Monitoring • Pretreatment • User Charge



November 18, 1994

Mr. Bill LeFevre Wisconsin-DNR Tank Response Unit

Dear Mr. LeFevre:

Pursuant to our telephone conversation earlier today, I am submitting the following information concerning two soil samples submitted to Environmental Monitoring & Technologies (EMT) for PVOC analysis by Mr. Terry Freudenrich of Superior Environmental. Please refer to the following cooler receipt form which was completed by our Log-in Technician, Mr. Mark Steuer, upon sample receipt.

The two soil samples in question were collected by Superior Environmental on September 16, 1994 and shipped to EMT via courier. Several deficiencies were noted upon arrival. First the ice used to cool the samples during shipment had melted and the samples were received in our laboratory at 20°C. Also for each sample, Superior Environmental submitted two 4oz. glass jars filled with soil and preserved with methanol, and one Enchem sampler which was filled with soil (not preserved in methanol) and sealed. Although the soil samples in the glass jars had been preserved with methanol in the field, it was noted that the glass jars were not sealed properly and some of the methanol had leaked from each jar. was determined that these samples could not be properly analyzed. The samples submitted in the Enchem samplers were properly sealed and intact. But were not properly cooled.

Mr. Freudenrich was notified regarding the integrity of the samples upon receipt. In our discussion, it was determined that the DNR might reject this analytical data, but that EMT should go ahead and perform PVOC analysis on the soil samples enclosed within the Enchem Samplers.

Mr. Bill LeFevre Wisconsin DNR. Page 2

EMT



11/18/94

Upon receipt, the samples were logged into our LIMS system and placed in our sample log-in cooler. The cooler is maintained at 4°C. Analysis was performed for PVOC's later the same day, September 19, 1994. The report was sent to our client on September 21, 1994

Please contact me at (708) 967-6666 if you have any questions, of if you require additional information.

Sincerely

	.TM	s #: 94593 -94599	.00	leı	: 2:	<u>. </u>		
		Fisher Hamilton Scientific						
		USE OTHER SIDE OF THIS FORM TO NOTE DETAILS CONCERNING CHECK-IN PROBLEMS.						
. А	Α.	PRELIMINARY EXAMINATION PHASE: Date cooler was opened: 19 Stp + 1994 By (print): 6:11 Shaw (sign)						
1	L .	Did cooler come with a shipping slip (mirbill, etc.)? () () () () () () () () () ([\					
2	2.	Wers custody seals on outside of cooler?		•	٠	. ,	Yes	No
3	١.	Were custody seals unbroken and intact at the date and time of arrival?	. ,				Yes	Ng
. 4		Did you screen samples for radioactivity using a Geiger Counter	, ,				Yes	No
5		Were custody papers scaled in a plastic bag & taped inside to the lid?	. ,				Yes	No
6		Were custody papers filled out properly (ink, signed, atc.)?			•	, ,	Ye	No
7		Did you sign custody papers in the appropriate place?		•			(OB)	No
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. 1	1.	Describe type of packing in cooler:						
1:	2.	Were all bottles sealed in separate plastic bags?					Ze s	No
1	3.	Did all bottles arrive unbroken and were labels in good condition?					Yes	13
1	4.	Were all bottle labels complete (ID, date, time, signature, preservatives, etc.)?					Ye	No
1	5,	Did all bottle labels agree with custody papers?		•	٧		1	No
		Were correct containers used for the tests indicated?						-
		Were correct preservatives added to samples?					-	
1,	₽.	Was a sufficient amount of sample sent for tests indicated?	•				3	No
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2	٥.	Was the project manager called and status discussed? If YES, give details on the back o						
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T708 967 5448



CHAIN OF CUSTODY RECORD LUST PROGRAM Based on Form 4400-151 Rev. 4-93

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

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Asgnut



George E. Meyer Secretary

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

101 South Webster Street Box 7921 Madison, Wisconsin 53707 TELEPHONE 608-266-2621 TELEFAX 608-267-3579 TDD 608-267-6897

November 23, 1994

David Tice Fisher-Hamilton Scientific PO Box 137 Two Rivers, WI 54241

SUBJECT: Underground Storage Tank Closure Assessment for Fisher-Hamilton Scientific, 1316 18th St., Two Rivers, WI 54241

Dear Mr. Tice:

The Department has reviewed the closure assessment documentation for the state and federally regulated underground benzene storage tank system that was removed from the above-referenced property on September 16, 1994. The purpose of this letter is to inform you that the closure status of "unknown" has been assigned to this site, and new soil samples need to be collected and analyzed before the review can be completed.

On November 15, 1994 the Department received the closure documentation for the site. The documentation indicated that the soil samples were not preserved with ice, and had reached a temperature of 20 degrees celsius by the time they were received by the analytical laboratory, Environmental Monitoring and Technologies, Inc.

According to the applicable guidance, Site Assessments for Underground Storage Tanks Technical Guidance (PUBL-SW-175 93, September 1992) and Leaking Underground Storage Tank (LUST) and Petroleum Analytical and Quality Assurance Guidance (PUBL-SW-130 93, July 1993), all samples must be cooled to 4 degrees celsius immediately after sampling and kept cool until they arrive at the laboratory.

In order to resolve this situation it is necessary to collect samples in accordance with current Department guidance. The samples should be collected and analyzed in accordance with the following considerations:

- 1. The samples may be collected using test pits or soil borings. If borings are used, use hammer samplers to collect undisturbed samples.
- 2. The samples should be collected from below the maximum extent of the original excavation to avoid dilution of the soil sample by the excavation backfill materials.
- 3. A site assessor certified under ILHR 10 should conduct the additional sampling.
- 4. Soil samples should be analyzed for the appropriate parameter (in this case PVOC) in accordance with the Site Assessments for Underground Storage Tanks Technical Guidance (PUBL-SW-175 93, September 1992) and Leaking Underground Storage



Tank (LUST) and Petroleum Analytical and Quality Assurance Guidance (PUBL-SW-130 93, July 1993). Your contractor should have copies of this and other guidance.

The additional sampling must be properly documented. At a minimum you must provide the following:

- 1. An accurate site map showing the locations of the soil samples in relationship to the other structures on the site (building, driveways) and the former locations of the tanks, pumps, and piping;
- 2. Copies of the lab results and sample chain-of-custody;
- 3. A narrative describing the following the date and time the samples were conducted, the name, address, and phone number of the firm conducting the borings, the name of the person collecting the samples, soil types encountered and any other relevant information; and
- 4. If borings are used to collect the samples, copies of the soil boring logs and borehole abandonment forms completed in accordance with NR 141, Wis. Admin. Code.

In summary, the purpose of the closure assessment is to determine whether the tank leaked in service and a proper closure assessment is required by state and federal law. I am unable to determine whether a release has occurred at the above site based on the information you have provided so far. The closure assessment requirement is implemented by the Department in cooperation with the Department of Industry, Labor, and Human Relations (DILHR) and the United States Environmental Protection Agency (USEPA).

Please conduct the additional sampling within 45 days and supply the additional information within 75 days of your receipt of this letter. Send the boring log and sample results to my attention at the above address. Please provide me with 15 days advance notice prior to initiating the collection of additional samples. If you have any questions regarding this letter please call me at (608) 264-8597.

Sincerely,

William J. LeFevre, Waste Management Specialist

Tank Response Unit

Bureau of Solid and Hazardous Waste Management

cc: Terry Freudenrich - Superior Hazardous Waste Group, Inc.

Case file

Wm J Ween



November 7, 1994

TANK RESPONSE UNIT - SW/3 **DEPARTMENT OF NATURAL RESOURCES**P.O. BOX 7921

MADISON, WISCONSIN 54707



RE: Site Assessment & Tank Closure Report; Superior Project #28902

Enclosed for your records is your copy of the Site Assessment and Tank Closure Report for the underground storage tank removal at Fisher-Hamilton Scientific, 1316 18th Street, Two Rivers, Wisconsin.

A copy of this report has been sent to the required individuals in accordance with DILHR and DNR regulations. After reviewing the closure report, please issue a closure letter for Mr. Tice's records.

If you have any questions as to the contents of this letter or the report, please feel free to contact me at 414/284-9101.

Sincerely,

SUPERIOR HAZARDOUS WASTE GROUP, INC.

Karen F. Koehler Technical Support

Enc

Site Assessment and Tank Closure Report

Underground Storage Tank Removal at the

Fisher-Hamilton Scientific
1316 18th Street
Two Rivers, Wisconsin 54241

September 16, 1994

Prepared for:

David Tice

Prepared by:

Superior Hazardous Waste Group, Inc. 222 East Main Street Port Washington, Wisconsin 53074

Superior Project Number: 28902

October 20, 1994

Terry Freudenrich Project Manager Karen F. Koehler

Technical Support

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Recommendations	5
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EXECUTIVE SUMMARY

The site where the 1,000 gallon solvent tank was removed is located at 1316 18th Street, Two Rivers, Wisconsin. The site lies in the Southwest 1/4 of the Northeast 1/4 of Section 1, Range 24 East, Township 19 North in Manitowoc County.

The property is owned by Fisher-Hamilton Scientific. Mr. David Tice can be reached at (414) 794-6326.

Analytical results show detection levels below the quantitation levels acceptable for closure of the 1,000 gallon solvent tank. Superior Hazardous Waste Group, Inc. recommends that a clean closure be granted for the 1,000 gallon solvent storage tank located at 1316 18th Street, Two Rivers, Wisconsin.

TECHNICAL REPORT

SCOPE OF WORK

Superior Hazardous Waste Group, Inc. supplied personnel and equipment to perform the following services:

- Break up concrete overburden to expose the tank.
- Ventilate tank space. Test air and re-ventilate the tank space, if necessary.
- Excavate around the tank to facilitate the removal.
- Piping had been removed previous to Superior being on site.
- Secure tank and remove.
- Cut up tank on-site and prepare for off site disposal at Gus Holman Company.
- Fisher Hamilton will backfill excavation.
- Collect soil samples that are representative of the site as per Wisconsin Department of Natural Resources Site Assessments for Underground Strorage Tanks Technical Guidance (PBUL-SW-175-92).
- Compile the necessary data to complete the site assessment and tank closure report for Mr. David Tice.

TOPOGRAPHY AND SOILS

According to the United States Department of Agriculture Soil Conservation Service Soil Survey of Calumet and Manitowoc Counties, issued February 1980, the soils at this site consist of Oakville loamy fine sand, 2 to 6 percent slopes. This soil is gently sloping and well drained. It is on side slopes of beach ridges and lake plains.

Typically, the surface layer is dark brown loamy fine sand about 9 inches thick. The subsoil is about 29 inches thick. The upper part of the subsoil is strong brown, friable fine sand, and the lower part is yellowish brown, loose fine sand. The substratum to a depth of 60 inches is white loose fine sand.

FIELD ACTIVITIES

Superior field personnel were on-site September 16, 1994, to perform the tank removal and site assessment. Jim Kuester was Superior's certified remover/cleaner and site assessor {Certification #05976}. Weather conditions consisted of partly cloudy skies at the time of tank removal, with an outside air temperature of 67° Fahrenheit. The location of the tank and the adjacent surroundings can be found in Appendices 1 and 2.

Appendix 3 contains photographs of the tank removal activities. The concrete was removed over the tank, piping had been removed a number of years prior to tank removal. The tank was empty of liquids, the tank had not been used for a minimum of 25 years.

Superior field personnel started to excavate the solvent tank. The concrete over the tank was 8 inches thick then yellow sand to a depth of 8 feet. The tank was vented and checked for explosive atmosphere.

Depth to the top of the tank was two feet. Dimensions of the excavation were 15 feet X 8 feet X 8 feet in depth. After the tank was removed from the excavation, it was inspected and found to be in poor condition. Dimentions of the tank were 9 feet 9 inches X 3 feet 2 inches in diameter. Associated piping had been removed a number of years prior to the removal of the tank.

Since the best available information suggests the tank was used to store solvents (benzene) soil samples where collected and analyzed as per pre-approved agreement with WDNR Lake Michigan District. It is important to note that excavation and sampling (to a depth of three (3) feet below the base of the removed tank) observed fill soil at the work site. The fill was a mix of non-cohesive soils. Chain of Custody can be found in Appendix 6. Laboratory results are found in Appendix 7. The excavation was not backfilled per David Tice's directions. Fisher-Hamilton will fill excavation and reconstruct concrete floor.

Appendix 4 contains the DILHR Underground Petroleum Product Tank Inventory forms for the solvent tank. Appendix 5 contains the DILHR Checklist for Underground Tank Closure.

SAMPLING PROCEDURES

Superior Hazardous Waste Group, Inc. technicians followed DILHR and WDNR soil sampling specifications. All samples were analyzed for PVOC Method 8240 by Environmental Monitoring and Technologies, Inc, a WDNR certified laboratory. Results from the laboratory showed detection limits below the quantitation limits.

ENCHEM, Inc. provided all soil sampling equipment. Sampling devices were stainless steel

samplers which have been approved by the WDNR as an alternate sampling method for UST sampling.

Samples were placed in pre-tared jars and preserved with methanol then shipped in an iced cooler to Environmental Monitoring and Technologies, Inc. for analysis. Samples were handled in accordance with EPA protocol regarding chain-of-custody procedures. A copy of the chain-of-custody is included in Appendix 6. Locations where the laboratory samples were collected are noted on the site map found in Appendix 2.

ANALYTICAL RESULTS

Analytical results are described in Table 1. PVOC 8240 method was performed on these samples. Laboratory analysis data can be found in Appendix 7.

TABLE 1
Laboratory Results from Soil Samples Collected at 1316 18th Street, Two Rivers, Wisconsin

		- Tom Succe,	Two Rivers, wisconsin	
SAMPLE ID	SAMPLE #	ANALYSIS	COMPOUND	RESULTS
N-1151	1	PVOC-8240	Methyl-tertbutyl ether	< 1.0 ppb
N-1151	1	PVOC-8240	Benzene	< 0.5 ppb
N-1151	1	PVOC-8240	Toluene	< 0.5 ppb
N-1151	1	PVOC-8240	Ethylbenzene	< 0.6 ppb
N-1151	1	PVOC-8240	Xylene	< 0.6 ppb
N-1151	1	PVOC-8240	1,3,4-trimethylbenzene	< 0.6 ppb
N-1151	1	PVOC-8240	1,2,4-trimethylbenzene	< 0.6 ppb
S-1024	2	PVOC-8240	Methyl-tertbutyl ether	< 1.0 ppb
S-1024	2	PVOC-8240	Benzene	< 0.5 ppb
S-1024	2	PVOC-8240	Toluene	< 0.5 ppb
S-1024	2	PVOC-8240	Ethylbenzene	< 0.6 ppb
S-1024	2	PVOC-8240	Xylene	< 0.6 ppb
S-1024	2	PVOC-8240	1,3,4-trimethylbenzene	< 0.6 ppb
S-1024	2	PVOC-8240	1,2,4-trimethylbenzene	< 0.6 ppb

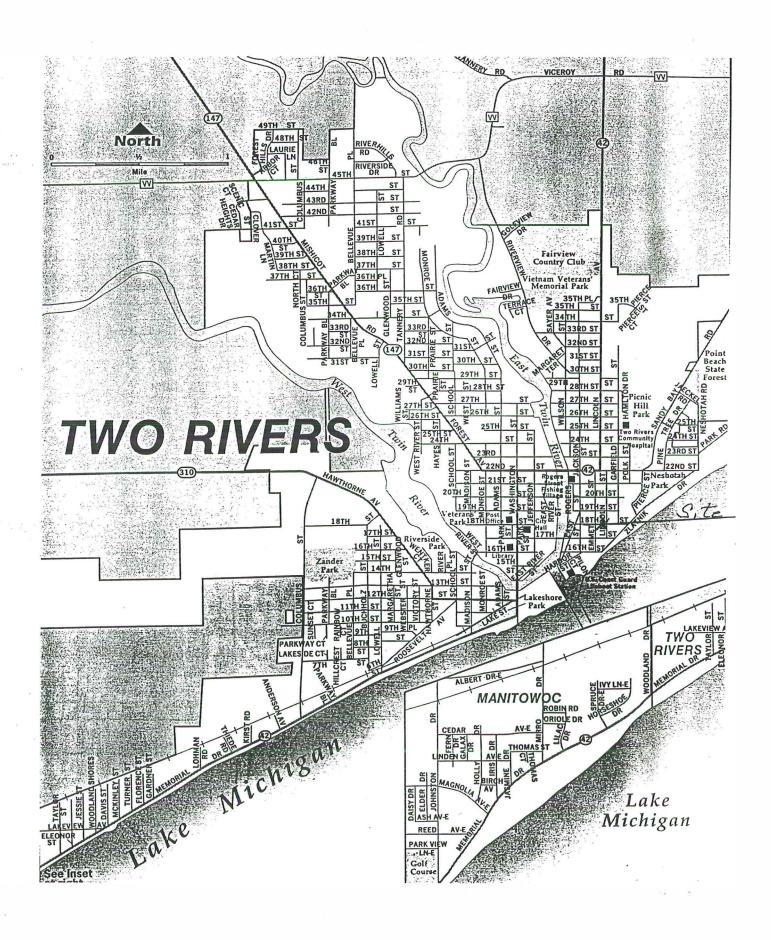
CONCLUSIONS

Analytical results show detection levels below the quantitation levels acceptable for closure of the 1,000 gallon solvent tank.

RECOMMENDATIONS

Superior Hazardous Waste Group, Inc. recommends that a clean closure be granted for the 1,000 gallon solvent underground storage tank located at 1316 18th Street, Two Rivers, Wisconsin.

Area Community Map



Site Map





TANK IS 9 FT 9 IN BY 3 FT 2 IN DIAMETER

SAMPLE S-1024 WAS TAKEN AT 8 FT ON SOUTH END OF TANK

SAMPLE N-1151 WAS TAKEN AT 8 FT ON NORTH END OF TANK

TANK

2FT

THE EXCAVATION AREA WAS 8 FT ACROSS BY 15 FT LONG

CONCRETE OVER AREA TANK WAS LOCATED

UNDERNEATH WALLS

Tank lays earl

PROJECT # 28902

FISCHER-HAMILTON SCIENTIFIC 1316 18TH STREET TWO RIVERS, WI 54241

DRAWING IS NOT TO SCALE C.A.D. BY LEILA CAMPBELL

Photographs of Tank Removal Activities





22902 Cement in front of Walls

Customer Fisher-Hamilton Scientific Project #25902 Date September 16, 1994

Photo # 1 - 2 Description Site prior to excavation & Cement in front of wall





Customer Fisher-Hamilton Scientific Project # 2822 Date September 16, 1994

Photo # 3 - 4 Description Start of excavation & Tank in excavation



Customer Fisher-Hamilton Scientific Project # 2002 Date September 16, 1994

Photo # 5 Description Tank removal from excavation

DILHR Underground Petroleum Product Tank Inventory Form

SBD-7437

Wisconsin Department of Industry, Labor and Human Relations

For Office Use Only:

BD-7437 (R. 04/92)

UNDERGROUND PETROLEUM PRODUCT TANK INVENTORY

Information Required By Sec. 101.142, Wis. Stats.

Send Completed Form To: Safety & Buildings Division P.O. Box 7969 Madison, WI 53707

Tank ID #	Information Requir	ed By Sec. 101.142,	Wis. Stats. Tele	ephone (608) 267-5280
Underground tanks in Wisconsin that Please see the reverse side for additio with at least 10 percent of its total voleach tank. Send each completed form	nal information on this ume (included piping) l nto the agency designa	program. An under ocated below groun ted in the top right o	ground storage tan d level. A separate corner. Have you p	k is defined as any tank form is needed for reviously registered
this tank by submitting a form?	E3 NO my core	you correcting/upda	ating information o	nly? X Yes No
This registration applies to a tank that is (check 1A. In Use or 1B. Newly Installed 4.	one): Closed - Tank Removed	9 Changed Owners	Fire Department P	roviding Fire Coverage
	Closed - Filled With	(Indicate new own		
3. Abandoned No Product (empty)	Inert Material	below)	ner Wo RIVER	(5
or With Water 7.	☐ Out of Service - Provide D	ate:	_	
A. IDENTIFICATION: (Please Print)				
1. Tank Site Name -ISHER-HAMILTON	Site Add	17th STREET	POBOXIS	7 Site Telephone No.
	Town of:	State	Zip Code	County
1 MO KNERS		MISC	37271	MANITOWOC
2. Owner Name (mail sent here unless indicated SAME			SAME	ndicated otherwise in #3)
☐ City ☐ Village	☐ Town of:	State	Zip Code	County
3. Alternate Mailing Name If Different Than	#2		et Address If Different Fro	om #2
☐ City ☐ Village	☐ Town of:	State	Zip Code	County
4. Tank Age (date installed, if known: or year + 25 years	s old) 5. Tank Capacity (ga	llons) 6. Tank Manufa	icturer's Name (if known)
. TYPE OF USER (check one)			× .	
	ulk Storage overnment	3. ☐ Utility 7. ☐ School] Mercantile] Residential
	ther (specify):	7. Seriooi		:
. TANK CONSTRUCTION:				
1.	athodically Protected and Coa		ial Anodes or B. Implementation Other (specify):	ressed Current)
	teel - Fiberglass Reinforced Pl			
Approval: 1. Nat'l Std. 2. UL 3.	Other:		Is Tank Doub	le Walled?
	If yes, identify type:		Spill Contain	
Tank leak detection method: 1. ☐ Automatic tightness testing 5. ☐ Interstitial monitori		r monitoring 3. ☐ Gr esent 7. ☑ Manual	roundwater monitoring Tank Gauging (only for t	4. Inventory control and anks of 1,000 gallons or less)
PIPING CONSTRUCTION Bare Steel 2.	ed and Coated or Wrapped St	eel (A. 🗌 Sacrificial Ano	des or B. 🗌 Impressed C	
4/ Fiberglass 5. Other (specify): iping System Type: 1. Pressurized piping v			trictor 2. 🗌 Suction pi	9. Unknown ping with check valve at tank
	check valve at pump and insp		2.00	
Piping leak detection method: used if pressurize 3. Groundwater monitoring 4.		☐ Line Leak Detector	2.	toring
opproval: 1. Nat'l Std 2. UL 3.	Other:		Double Walled:	☐ Yes ☐ No
E. TANK CONTENTS				
1. ☐ Diesel 2. ☐ L 5. ☐ Gasohol 6. ☐ C		 Unleaded Empty 	_] Fuel Oil] Sand/Gravel/Slurry
9. Unknown 10. P	remix	11. Waste Oil		Propane
13. Chemical * SOLVENT	-c. Benzene	14. 🗌 Kerosene	15.] Aviation
* If # 13 is checked, indicate the chemical nam	e(s) or number(s) of the chem	ical or waste.		
Tank Closed, Give Date (mo/day/yr):		Has a site assessment b	een completed? (see re	verse side for details)
Sept-16-94			Yes No	,
installation of a new tank is being reported, in	ndicate who performed the in	stallation inspection:		
1. Fire Department 2. D	•	3. ☐ Other (identify) N/A	
Name of Owner or Operator (please print):			icate Whether:	
FISHER HAMILTON SCIENT	TEC DAVID		Owner or	Operator "
signature of Owner or Operator:		Dat	te Signed:	-
Danittue			9-16-94	<i>L</i>

Checklist for Underground Tank Closure

SBD-8951

Wisconsin Department of Industry, Labor and Human Relations

Complete one form for each site closure.

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

Cadir bite diobar er						1.0.0	OX 7 30.	, iviau	13011, 441	33707
A. IDENTIFICATION: (Ple		Indicate wheth	er closure	is for: 2. Owner N	ame	_	nk Onl	у [Piping	Only
Fisher Hamilton	on Scien	TiFic			<	Sam	0			
Site Street Address (not P.O. E	Box)		İ	Owner Stree	t Address					
1316 18+h S+	age	Town of:		City	Village To	own of:	State		Zip Code	
Two River					_ vagoc		Oldio	1	Zip Code	
State	ip Code	County		County	Tele	phone No.	(include	area coo	de)	
	54a41	Manitou			()				
3. Closure Company Name (F				oany Street A		AL- \	0. 4	٥. حد	\	
Superior Has Closure Company Telephone N	lo (include area	STOUP 1	O DOX	SOC O	ate, Zip Code	/va in	5+1	0 (ار	washin	a toto
(414) 284 - 9		code)			hington	T.W	590	076	l	
4. Name of Company Perform		ssment A	Assessment C	Company Stre	et Address, City, S	State, Zip C	ode			
Superior Has				Sam						
Telephone # (include area co		1/		1 /	r Signature			Assesso	or Certificat	
(414) 284-910	1 Jim	Kuesti	er	Ju	n True	stes		OF	597k	<u> </u>
Tank ID #	Closure	Temp. Closure	Closui	e In Place	Tank Capacit	-	ents *	Clos	ure Asse	ssment
1. 255681	X		A		1,0000	L 501	vent	,	AY D	N
2.						-				N
3.									ПУП	N
4.		П		П					ПУП	N
5.		П								
6.										-
* Indicate which product by 11-Waste oil; 13-Chemica	unmeric code.	01-Diesel: 02-L	eaded: 03-	∐ Inleaded: (<u> </u> 4-Euel Oil: 05-G	iasopol: N	6-Other			
Check applicable box at B. TEMPORARILY OUT Written inspector approvise effective until (provide 1. Product Removed a. Product lines drain b. All product remove c. All product remove 2. Fill pipe, gauge pipe,	of SERVIC val of temporar e date) ned into tank (o ed to bottom o ed to within 1" tank truck vap	y closure obtained or other container of suction line, OF of bottom	ed, which r) and resul gs, and vap	ting liquid r	emoved, AND		Vei	rified N N N N N N N N N N N N N N N N N N	Verifies Unique to the latest term of the latest	
3. All product lines at th 4. Dispensers/pumps le 5. Vent lines left open. 6. Inventory form filed in	ft in place but	locked and powe	r disconne	cted						
C. CLOSURE BY REMO		al. for the	-i\				.س	,	_	_
 Product from piping of the piping of the piping disconnected 	urained into tar from tank and	removed	amer)				NA A			
All liquid and residue	removed from	tank using explo	osion proof	pumps or h	nand pumps		. 🗋 Y	, □ N		8
Fill pipes, gauge pipe	3. All liquid and residue removed from tank using explosion proof pumps or hand pumps									
THE USE OF AN ED		nurae d						,		_
 Vent lines left connect Tank openings temporal 								/		X X
Tank openings tempt Tank atmosphere rec								/		
9. Tank removed from 6					-				_	_
to prevent movement 10. Tank cleaned before								/		
SBD-8951 (R. 12/91)	Doing removed	•		E ON NEX1			44	□ 14		
000. \/01/			~ ~	/						

		Tank labeled in 2" high letters after removal but before being moved from site.	Remover Verified Y \ \ \ \ \ \ \	Verified	NA
	12.	NOTE: COMPLETE TANK LABELING SHOULD INCLUDE WARNING AGAINST REUSE; FORMER CONTENTS; VAPOR STATE; VAPOR FREEING TREATMENT; DATE. Tank vent hole (1/8 th " in uppermost part of tank) installed prior to moving the tank from site			
		Inventory form filed by owner with Safety and Buildings Division indicating closure by removal Site security is provided while the excavation is open			
D.	CI	LOSURE 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. Descript from piping designed into tools (or other container)	14		
		Product from piping drained into tank (or other container). Piping disconnected from tank and removed	\square Y \square N		
	3.	All liquid and residue removed from tank using explosion proof pumps or hand pumps	□ Y □ N		
		All pump motors and suction hoses bonded to tank or otherwise grounded. Fill pipes, gauge pipes, vapor recovery connections, submersible pumps and other fixtures removed. NOTE: DROP TUBE SHOULD NOT BE REMOVED IF THE TANK IS TO BE PURGED THROUGH			
	6	THE USE OF AN EDUCTOR - EDUCTOR OUTPUT 12 FT ABOVE GRADE. Vent lines left connected until tanks purged	\square Y \square N		
	7.	Tank openings temporarily plugged so vapors exit through vent. Tank atmosphere reduced to 10% of the lower flammable range (LEL) - see Section F.			
		Tank properly cleaned to remove all sludge and residue			
		Vent line disconnected or removed.		H	님
		Inventory form filed by owner with Safety and Buildings Division indicating closure in place	☐Y ☐N		
E.	CI	LOSURE 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.	ATYON		
	2.	Do points of obvious contamination exist?	YVV		
		Are there strong odors in the soils?			
		Was a field screening instrument used to pre-screen soil sample locations? Was a closure assessment omitted because of obvious contamination?		>	
		Was the DNR notified of suspected or obvious contamination?	Y		1
	7	Agency, office and person contacted: Contamination suspected because of: Odor Soil Staining Free Product Sheen On Groundw.	ater □ Field	Instrument 1	Test
		ETHOD OF ACHIEVING 10% LEVEL DESCRIPTION		moti dimoni	
г.		Educator Or Diffused Air Blower		60	
		Eductor driven by compressed air, bonded and drop tube left in place; vapors discharged minimum Diffused air blower bonded and drop tube removed. Air pressure not exceeding 5 psig.	of 12 feet abo	ove ground.	
	Ш	Dry Ice Dry ice introduced at 1.5 pounds per 100 gallons of tank capacity. Dry ice crushed and distributed	over the grea	itest possibl	e tank
		area. Dry ice evaporated before proceeding.			
		Inert Gas (CO/2 or N/2) NOTE: INERT GASSES PRODUCE AN OXYGEN DEFICIENT ATMOSPHEI ENTERED IN THIS STATE WITHOUT SPECIAL EQUIPMENT	RE. THE TA	NK MAY NO	OT BE
		Gas introduced through a single opening at a point near the bottom of the tank at the end of the tank	opposite the	vent.	
	K	Gas introduced under low pressure not to exceed 5 psig to reduce static electricity. Gas introducing	g device grou	ınded.	
	134	Tank atmosphere monitored for flammable or combustible vapor levels. Calibrate combustible gas indicator. Drop tube removed prior to checking atmosphere. Tank space	e monitored	at bottom, m	niddle
		and upper portion of tank. Readings of 10% or less of the lower flammable range (LEL) obtained be			
		ground.			
G.	NC	OTE SPECIFIC PROBLEMS OR NONCOMPLIANCE ISSUES BELOW			
H.	RE	EMOVER/CLEANER INFORMATION			
		Sim Kyester Jim Thuester 05976 Remover Name (print) Remover Signature Remover Cert	2	9-16-9	
_	Re	emover Name (print) Bemover Signature Remover Cert	ification No.	Date Signe	d
l.	IN	SPECTOR INFORMATION			
	Ins	spector Name (print) Inspector Signature	Inspector Ce	ertification N	0.
	FC	DID # For Location Where Inspection Performed Inspector Telephone Number	Date Signed		

Chain of Custody

State of Wisconsin Department of Natural Resources



CHAIN OF CUSTODY RECORD LUST PROGRAM Based on Form 4400-151 Rev. 4-93

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

Sample Collector(s) Jim Kuester						Title/Work Station/Company Field Sufervisor Suferior HWGI					Telephone Number (include area code) (4/4) 458-G030				
Property Owner Tisher Hamilton Scientific					Pro	Property Address 1316 18th St Two Rivers WI (414) 794-6326									
I hereby o	certify that I	received,	properl	y handle	ed and dispo	sed of the	ese samples as	noted below:			LABOR	ATORY USE	ONLY		
Relinquished By (Signature) Date/Time 9-16-94 1500				5					Temperature of temperature blank If samples were received on ice and there was ice remaining, you may report the temperature as 'received on ice'. If all of the ice was melted, the temperature of the melt may be substituted for a temperature blank						
Relinquished By (Signature) Date/Time				·	Received By (Signature)										
Relinquished By (Signature)			Date	Date/Time			Received for EN CHEM by (Signature)		e)		r	le Condi	tion	1	
Field ID Number	Date Collected	Time Collected	Park Syriah Committee	mple Device	Presery. Type	Field Screenin	g (see	n/Description footnote 2)	Analysis Type	Lab ID Number	no/Type of Containers			Good Cond.	Other Comments
N-1151	9-16-94	1215	Soil	en Char Sempler	methand		end	from worth of Tank	Procto 40	94593	2/4 Steel	NO	hes	No	Leakel Mollan
5-1024	9-16-94	1230	Soil	sample:	methanoL		Soil of To	from South end in K	PUOC-8240	MITTE	2 Stal	No	પુશ	No	Meth,
													\bigcup		
	20 10														
	1 1 - 121														
	476											-			
	(C) *					3									
2. sample de	roundwater, s scription mus location.	urface Water t clearly co	r, soil orrelate	, leacha	ite, sludge, imple ID to	etc. the		2. PVOC 6. 3. Lead 7.	ANALY DRO PAH Flashpoint Percent Soli	10. pH 11. TO	LP-Benzene	14. 15.		ol D1-GRO ol D1-DRO	
BILLING A	DDRESS:								DEP	ARTMENT US	E ONLY	75.	da,		
DIEEING A								Split samples:	Offere Accept		yes yes		(Check o		
	¥ 2	w 1			her.		<u> </u>	Accepted By:					- 1	1 00	

Laboratory Results



ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.

8100 North Austin Avenue Morton Grove, Illinois 60053-3203 708/967-6666 FAX: 708/967-6735

LABORATORY REPORT

105341

Superior Environmental Services 2905 Paint Avenue, P.O. Box 1249 Sheboygan, WI 53082-1249

Report Date: 9/21/94

Sample Received 20°C: 9/16/94

Project Name: Fisher Hamilton Scientific

Sample Description: Soil, S-1024, South End Of Tank

Sample No.: 94594

Campaund <u>Purgeables</u>	Concent ra Round <u>Sample</u> (ppb)	IN	Method Detection Limit (MDL) ug/k (ppb)	Quantitation Limit ug/k (ppb)
1. Methyl-tertbutyl ether	<1.0	<1.0	1.0	10
2. Benzene	<0.5	<0.5	0.5	5
3. To luene	<0.5	<0.5	0.5	5
4. Ethylbenzene	<0.6	€0.6	0.6	5
5. Xy lenes	<0.6	€0.6	0.6	5
6. 1, 3,5-tr imethy lbenzene	<0.6	€0.6	0.6	5
7. 1,2,4-tr imethy lbenzene	<0.6	⋖ 0.6	0.6	5

Samples not maintained at 4°C.

Wisconsin Certified Laboratory #999888890.

Samples received in En Chem Sampler

All results expressed as ppb unless otherwise indicated.

Methods performed according to SW-846, "Test methods for Evaluating Solid Waste".

The contents of this report apply only to the sample analyzed. No duplication of this report is allowed except in its entirety.

Lest E. Zelw

LABORATORY DIRECTOR



ENVIRONMENTAL MONITORING AND TECHNOLOGIES, INC.

8100 North Austin Avenue Morton Grove, Illinois 60053-3203 708/967-6666 FAX: 708/967-6735

LABORATORY REPORT

105342

Superior Environmental Services 2905 Paint Avenue, P.O. Box 1249 Sheboygan, WI 53082-1249

Report Date: 9/21/94

Sample Received 20°C: 9/16/94

Project Name: Fisher Hamilton Scientific

Sample Description: Soil, N-1151, North End Of Tank

Sample No.: 94593

Compound Purpeables	Concent ra Round <u>Sample</u> (ppb)	IN	Method Detection Limit (MDL) ug/k (ppb)	Quantitation Limit ug/k (ppb)
1. Methyl-tertbutyl ether	<1.0	<1.0	1.0	10
2. Bertzene	<0.5	<0.5	0.5	5
3. Toluene	<0.5	<0.5	0.5	5
4. Ethylbenzene	<0.6	<0.6	0.6	5
5. Xy lenes	40. 6	⋖ 0.6	0.6	5
6. 1,3,5-trimethylbenzene	<0.6	⋖ 0.6	0.6	5
7. 1,2,4-tr inethy lbenzene	<0.6	<0.6	0.6	5

Samples not maintained at 4°C.

Wisconsin Certified Laboratory \$999888890.

Samples received in En Chen Sampler

All results expressed as ppb unless otherwise indicated.

Methods performed according to SW-846, "Test methods for Evaluating Solid Waste".

The contents of this report apply only to the sample analyzed. No duplication of this report is allowed except in its entirety.

Lest E. Zehn

LABORATORY DIRECTOR

Certificate of Destruction

CERTIFICATE OF DESTRUCTION

Date: 9-16-94	
Scrapping/Disposal Company:	Site of Destruction:
Gus Holman Co.	3313N21S+ Sheboygan
Tank Removal Contractor: Superior Haz waste	
•	
Tank No.: 25568	
Location: Company 7. Sher	
Address 1316 City/State Two Destruction Date: 9-16	Rivers wi
I certify that the above described for the storage of any fluids, and the tanks were disposed of in accostate and federal regulations.	all removed fluids, sludges, and