WISCONSIN
DEPT. OF NATURAL RESOURCES

George E. Meyer
Secretary

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Southeast District - Annex building
Post Office Box 12436
4041 N. Richards St.
Milwaukee, Wisconsin 53212
TELEPHONE: 414-961-2727
TELEFAX # : 414-961-2770

July 18, 1994

File Ref: 936
FID #: 267083850
ERR LUST

53095-4050-60 - B

Mr. J. Thomas Ravn
Serigraph, Inc.
760 Indiana Ave.
P.O. Box 438
West Bend, WI 53095

RE: **CASE CLOSURE, 2,000 g. Fuel Oil Underground Storage Tank, Serigraph, Inc. 760 Indiana Ave., West Bend, WI**

Dear Mr. Ravn:

The Wisconsin Department of Natural Resources (WDNR) reviewed the *Phase IV Environmental Site Assessment Report...* (December 1990), prepared by Aqua-Tech, Inc. (now known as Advent Environmental Services, Inc.). The report describes site investigation and remediation activities related to one fuel oil underground storage tank formerly present on the subject site.

Based on the information provided, we are not requiring any further investigation or other action in connection with this cleanup. The WDNR retains the right to require remedial action in the future if additional environmental impacts are detected.

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.

The WDNR appreciates the actions you have taken to restore the environment at this site. I apologize that the large number of leaking underground storage tank cases throughout the state prevented us from addressing this case more quickly. If you have any questions, please contact me at (414) 961-2746.

Sincerely,

Nancy S. Kochis

Nancy S. Kochis
Hydrogeologist

cc: Peter Pavalko, Advent Environmental Services, Inc.
√SED case file #936

AQUA-TECH INC.

PHASE IV

ENVIRONMENTAL ASSESSMENT REPORT

FOR THE

SERIGRAPH, INC. SITE

760 INDIANA AVENUE

WEST BEND, WISCONSIN

DECEMBER 1990

PREPARED BY
AQUA-TECH, INC.
140 SOUTH PARK STREET
PORT WASHINGTON, WISCONSIN 53074
ATI PROJECT NO. 93727

SIGNATURE PAGE

FOR THE

ENVIRONMENTAL SITE ASSESSMENT REPORT

FOR THE

SERIGRAPH, INC. SITE

760 INDIANA AVENUE

WEST BEND, WISCONSIN

Prepared By: Peter E. Pavalko Date: 12-18-90

Peter E. Pavalko
Environmental Assessment Specialist
Aqua-Tech, Inc.

Reviewed By: Neil W. Rismeyer Date: 12/18/90

Neil Rismeyer, C.P.G.
Hydrogeologist
AIPG Certificate #7962
Aqua-Tech, Inc.

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1.0 SUMMARY

Aqua-Tech, Inc. has completed a Phase IV Environmental Assessment for the Serigraph, Inc. site in West Bend, Wisconsin. The assessment was conducted by Aqua-Tech, Inc. on October 30, 1990. The Phase IV Environmental Assessment included the following:

* Excavation of approximately 88.6 cubic yards of soil and disposal at Payne & Dolan, Inc. asphalt plant in Sussex, Wisconsin.
* Screening of soil samples collected from the excavation walls and floor for volatile organic compounds (VOCs) with a photoionization detector (PID).
* Collection of four soil samples for laboratory analyses for total petroleum hydrocarbons (TPH).
* Documentation of sampling procedures and soil conditions at the excavation.

LABORATORY RESULTS AND FIELD SCREENING WITH A PID INDICATE THAT ALL OF THE SOIL CONTAMINATED ABOVE THE 10 MG/KG WISCONSIN DEPARTMENT OF INDUSTRY, LABOR, AND HUMAN RELATIONS STANDARD FOR TPH WAS REMOVED FROM THE SITE.

No groundwater was encountered within the excavation. Based on the proven extent of contamination identified during this excavation and through soil borings completed during a previous assessment, GROUNDWATER IS NOT BELIEVED TO HAVE BEEN IMPACTED AT THE SITE.

After completing the Phase IV Environmental Assessment for the Serigraph, Inc. site, Aqua-Tech, Inc. recommends no additional investigation or corrective action. Field screening of the excavation with a PID and results of laboratory analyses of samples collected from the excavation indicate that all of the contaminated soil was removed from the site.

2.0 SITE BACKGROUND

2.1 Introduction

This section summarizes activities and results of the previous environmental investigation of the site.

2.2 Summary of Previous Investigation

Aqua-Tech, Inc. completed an underground heating oil tank excavation at the Serigraph site on August 15, 1990. In addition, four soil borings were completed around the perimeter of the tank bed on August 22, 1990.

The purpose of the soil borings was to delineate the vertical and horizontal extent of petroleum contamination identified at the site during the excavation of one 2,000 gallon underground heating oil tank.

Results of this investigation indicated that there had not been significant migration of petroleum components from the tank bed through the subsurface soils. The extent of contaminated soil was believed to be localized to the soils directly beneath the tank bed to a depth of 15 to 20 feet deep.

Aqua-Tech, Inc. recommended that the contaminated soil be excavated and all excavated soil be disposed of at Payne & Dolan Asphalt Plant in Sussex, Wisconsin. Aqua-Tech, Inc. estimated that approximately 40 cubic yards of contaminated soil would have to be excavated around and underneath the tank bed.

A copy of the underground heating oil tank closure assessment report can be found in Appendix A.

3.0 SITE ASSESSMENT PROCEDURES AND FIELD OBSERVATIONS

3.1 Introduction

This section outlines procedures and observations for the Phase IV Environmental Assessment at the Serigraph, Inc. site in West Bend, Wisconsin. Individual subsections address the specific assessment activities including field operations, sampling procedures, and chain of custody procedures.

3.2 Field Operations

Peter E. Pavalko of Aqua-Tech, Inc. arrived at the Serigraph site at 9:00 a.m. on October 30, 1990, to supervise the excavation process. Mr. Thomas Ravn, Serigraph Environmental Engineer, was also present during the excavation process.

The excavation was enlarged until screening of soil samples collected with a backhoe from the walls and floor of the excavation with a PID indicated no volatile organic compounds present or until physical barriers (building foundation) were encountered. The excavation was enlarged to a size of 23 feet long and 15 feet wide (See Figure 3-1). The floor of the excavation was 18 feet below ground surface.

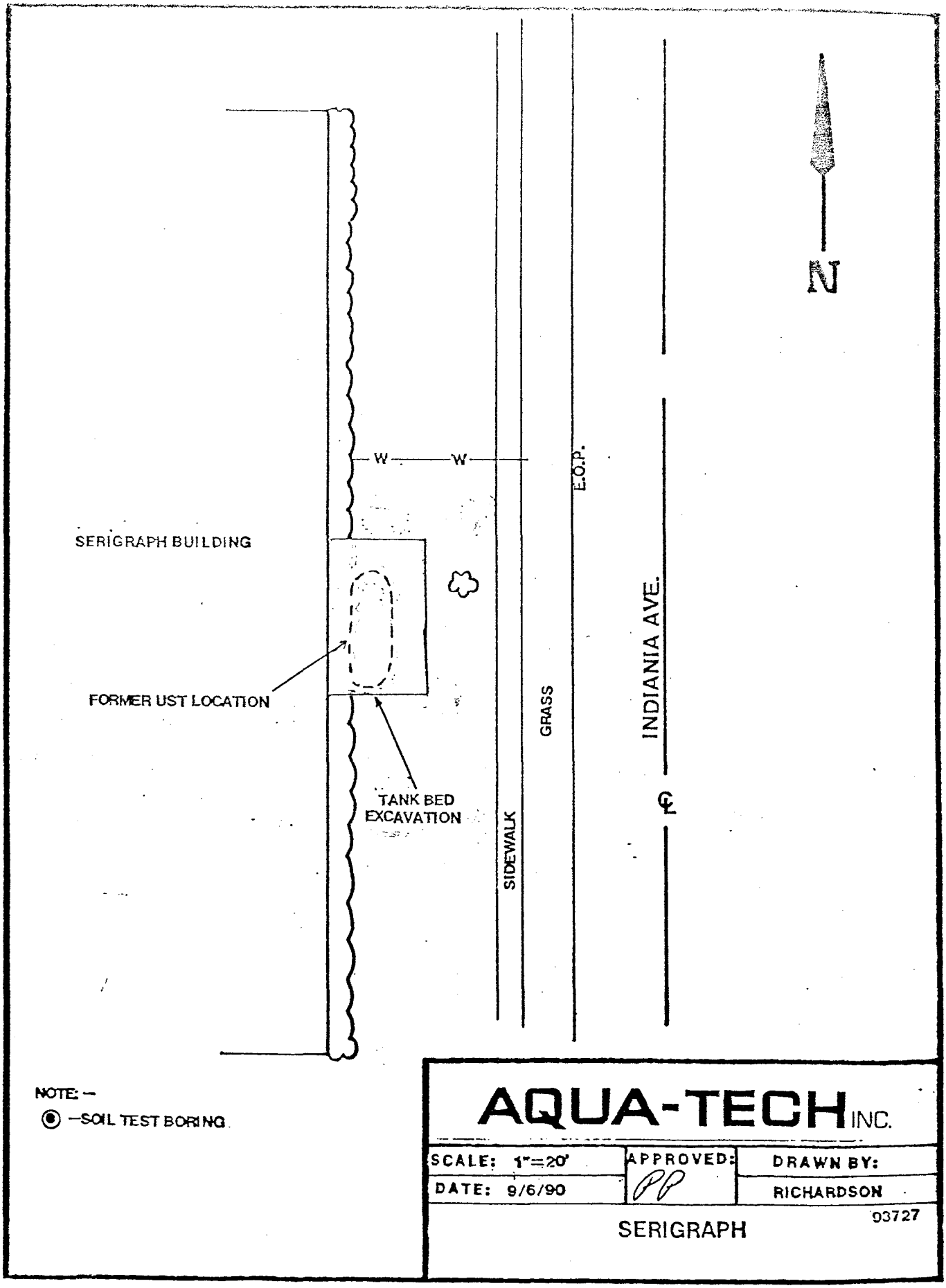
The majority of the contaminated soil was located between the tank bed and building foundation to the west. During the excavation process, the soil caved away from the foundation and fell onto the floor of the excavation where it was removed. Site photographs are provided in Appendix B.

After sampling was completed, the excavation was backfilled and fill material was compacted by Autoquip, Inc., 3861 North 35th Street, Milwaukee, Wisconsin.

3.3 Sampling Procedures

Four soil samples were collected from the walls (except the west wall) and floor of the excavation after the removal

FIGURE 3-1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◉ —SOIL TEST BORING
AQUA-TECH INC.
SCALE: 1"=20'
APPROVED:
DRAWN BY:
DATE: 9/6/90
RICHARDSON
93727
SERIGRAPH

of contaminated soil. Due to soil caving in from the foundation of the building, no soil remained to be sampled from the west wall of the excavation. Soil samples were collected from the center of the south (SS-S), east (SS-E), and north (SS-N) walls of the excavation at a depth of 15.0 feet. One sample (SS-F) was collected from the center of the floor of the excavation at a depth of 18.0 feet. Refer to Figure 3-2 for soil sample locations.

All collected samples were packed into four ounce, Teflon™ lidded jars, cooled to 4°C, and transported to the laboratory for chemical analysis.

3.4 Chain of Custody Procedures

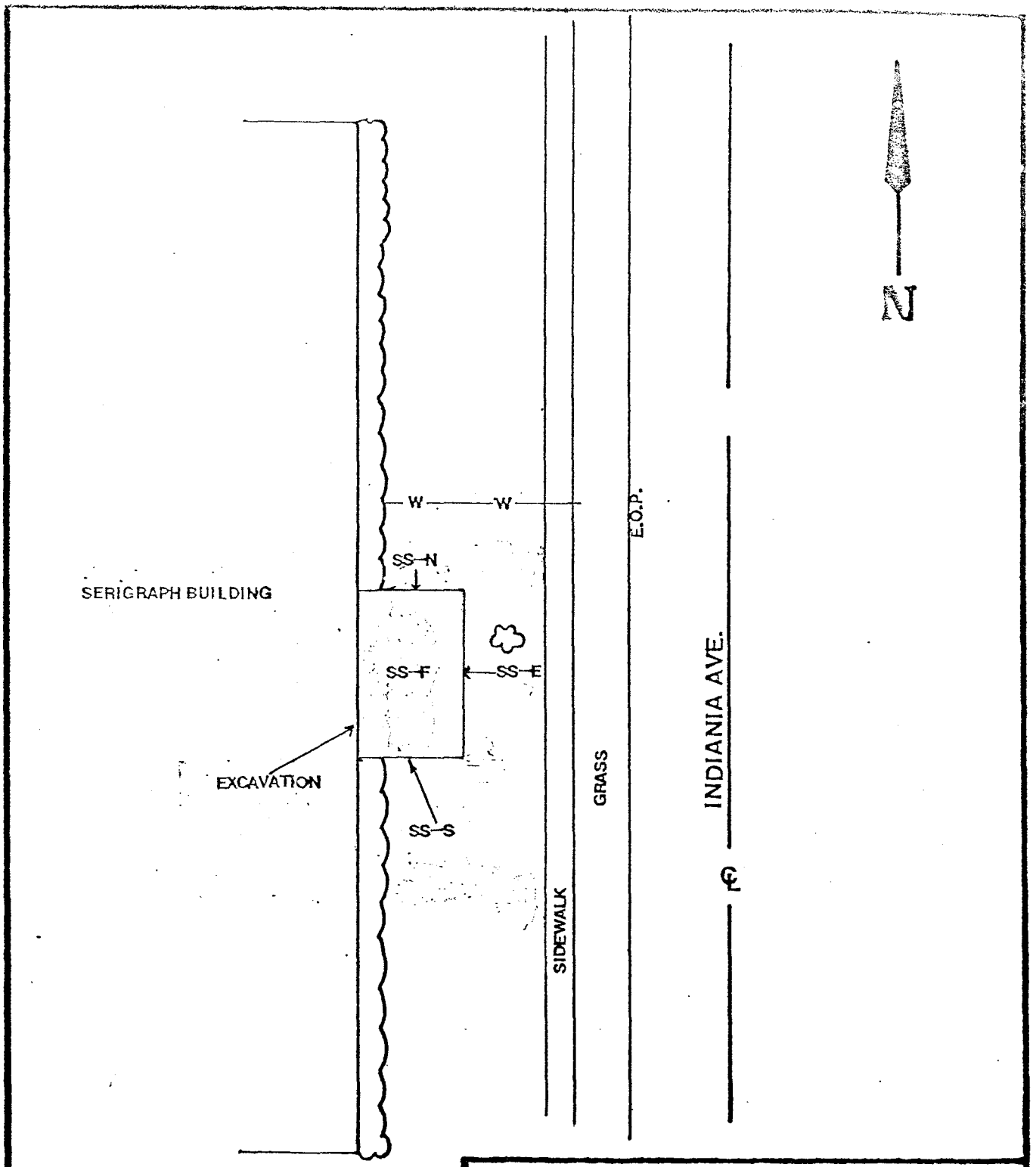
This section describes procedures used for sample identification and chain of custody. The purpose of these procedures is to ensure that the integrity of the samples is maintained during their collection, transportation, and storage through analysis.

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, physically preserved, and sealed immediately after collection. To minimize handling of sampling containers, labels are filled out prior to sample collection. The sample label is completed using waterproof ink and is firmly affixed to the sample containers. The sample label provides the following information:

FIGURE 3-2


N
W
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SS-N
SERIGRAPH BUILDING
SS-F
SS-E
EXCAVATION
SS-S
SIDEWALK
GRASS
INDIANA AVE.
℄
NOTE: —
◉ —SOIL TEST BORING
AQUA-TECH INC.
SCALE: 1"=20'
APPROVED:
DRAWN BY:
DATE: 9/6/90
RICHARDSON
SERIGRAPH
03727

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

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

Transfer of Custody Shipment

The cooler in which the samples are packed is 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 samples and verifies that 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.

4.0 ANALYTICAL PROCEDURES AND RESULTS

4.1 Introduction

This section includes results of chemical analyses of Aqua-Tech collected soil samples for total petroleum hydrocarbons (TPH). The samples were analyzed for TPH by National Environmental Testing, Inc., Rockford, Illinois.

4.2 Analytical Procedures

TPH soil samples were analyzed by the Modified California Gas Chromatography (GC) Method.

Analytical methodology references for each sampling task contain specific quality control (QC) criteria associated with the particular methods. These specific requirements include calibration and QC samples and are described in detail within the methods. Daily performance tests and demonstration of precision and accuracy are required.

4.3 Results of Chemical Analyses of Aqua-Tech Collected Samples

Concentrations of petroleum hydrocarbons above the 10 mg/kg laboratory detection limit were not identified in any of the four soil samples collected from the excavation.

Table 4-1 contains complete results of the chemical analysis for each soil sample. Laboratory data are provided in Appendix C.

TABLE 4-1

CHEMICAL ANALYSES OF SITE CLOSURE SOIL SAMPLES

FOR THE

SERIGRAPH, INC. SITE

WEST BEND, WISCONSIN

DATE SAMPLED: OCTOBER 30, 1990

Sample Number	Total Petroleum Hydrocarbons (mg/kg)*	Laboratory Detection Limits (mg/kg)	Maximum Photoionization Detector Readings (ppm)
SS-F	<10	10.0	0
SS-S	<10	10.0	0
SS-E	<10	10.0	0
SS-N	<10	10.0	0

* All results reported on a dry weight basis.

** Ten mg/kg 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).

5.0 DISCUSSION OF ASSESSMENT RESULTS

5.1 Introduction

This section discusses data and information that apply to observed and potential contamination that may be attributable to the Serigraph, Inc. site.

5.2 Soil

Approximately 88.6 cubic yards (124 tons) of soil was excavated from the Serigraph, Inc. site and transported to Payne & Dolan Asphalt Plant, Sussex, Wisconsin. In order to assure that all soil contaminated by TPH above 10 ppm was removed, slightly more soil then was absolutely necessary was excavated around the perimeter of the excavation. This was determined to be the best plan of action to ensure that no contaminated soil remained at the site, therefore reducing the probability that additional soil remediation would be required.

After the removal of contaminated soils, PID screening of the excavation walls and floor did not detect the presence of volatile organic compounds. Laboratory analyses of soil samples SS-F, SS-S, SS-E, and SS-N did not detect contamination by TPH above the 10 mg/kg remediation level prescribed by the Wisconsin Department of Industry, Labor, and Human Relations.

The results of laboratory analyses of the excavation samples and the five soil samples collected during the soil borings suggest that the limited amount of contaminated soil at the site has been removed.

5.3 Groundwater

No groundwater was encountered within the excavation which reached to a maximum depth of 18 feet below grade. Based on the demonstrated limited extent of contamination

identified at the site and results of laboratory analysis, groundwater is not believed to have been adversely impacted.

6.0 RECOMMENDATIONS

After completing the Phase IV Environmental Assessment for the Serigraph, Inc. site, Aqua-Tech, Inc. recommends no additional investigation or corrective action. Field screening of the excavation with a PID and results of laboratory analyses of samples collected from the excavation indicate that the contaminated soil has been removed from the site.

APPENDIX A

AQUA-TECH INC.

October 4, 1990

Mr. Thomas Ravn
Environmental Engineer
Serigraph, Inc.
760 Indiana Avenue
P.O. Box 438
West Bend, WI 53094

Dear Mr. Ravn:

Enclosed is the Underground Heating Oil Tank Closure Assessment Report for Serigraph, Inc., 760 Indiana Avenue, West Bend, Wisconsin.

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

Sincerely,

AQUA-TECH, INC.

Z. Vance Jackson, Jr.
Hydrogeologist

ZVJ/rk
Enclosure

CORPORATE
140 S. Park St., Port Washington, WI 53074
[414] 284-5746 FAX [414] 284-0243

TREATMENT FACILITY
340 Robinson Rd. Greer, S.C. 29651
[803] 877-1048 FAX [803] 877-1872

UNDERGROUND HEATING OIL TANK CLOSURE ASSESSMENT

FOR

SERIGRAPH, INC.

760 INDIANA AVENUE

WEST BEND, WISCONSIN

SEPTEMBER 1990

PREPARED BY
AQUA-TECH, INC.
140 SOUTH PARK STREET
PORT WASHINGTON, WISCONSIN 53074
ATI PROJECT NO. 93727

UNDERGROUND HEATING OIL TANK CLOSURE ASSESSMENT

FOR

SERIGRAPH, INC.

760 INDIANA AVENUE

WEST BEND, WISCONSIN

Prepared By: Peter C. Pavalko Date: 10-4-90

Peter Pavalko
Environmental Assessment Specialist
Aqua-Tech, Inc.

Reviewed By: R. Vance Jackson, Jr. Date: 10/5/90

Z. Vance Jackson, Jr.
Hydrogeologist
Aqua-Tech, Inc.

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1.0 SUMMARY

Aqua-Tech, Inc. was contracted by Serigraph, Inc. to conduct a tank closure assessment for the removal of one underground heating oil storage tank located at 760 Indiana Avenue, West Bend, Wisconsin. The tank closure assessment included the following:

* Excavation of one heating oil tank underground heating oil tank and approximately 10 cubic yards of fuel oil contaminated soil.
* Screening the tank bed for volatile organic compounds (VOCs) with a photoionization detector (PID)
* Collection and laboratory analysis of one soil sample from a depth of 7.0 feet from the tank bed for: total petroleum hydrocarbons (TPH), benzene, toluene, ethylbenzene, and xylenes (BTEX), free liquids, pH, flash point, total lead and E.P. toxicity lead.
* Collection and laboratory analyses of one soil sample from the excavation (16.0 feet) for TPH.
* Four soil borings to a maximum depth of 23.0 feet.
* Collection and field screening of subsurface soil samples from the soil borings for VOCs with a PID.
* Chemical analyses of five subsurface soil samples from the soil borings for TPH.
* Documentation of sampling procedures and soil and groundwater conditions in the tank bed excavation.

Results of this investigation indicate that a release of fuel oil and subsequent contamination of subsurface soils has occurred at the site. Laboratory analyses of the soil sample collected directly beneath the underground heating oil tank identified TPH contamination above the 10 mg/kg Wisconsin Department of Industry, Labor, and Human Relations (WDILHR) remedial action level. In addition, field

screening of the north end of the excavation with a PID indicated the presence of VOCs.

Three soil borings were completed around the perimeter of the tank bed. Laboratory analyses of the samples did not indicate the presence of TPH contamination above the WDILHR remedial action levels. Field screening of soils from the borings did not detect the presence of VOCs above background levels.

One soil boring was completed within the area of known soil contamination. Based on field screening and laboratory analysis of soil samples from this boring, soils in the 7.0 to 20.0 foot depth interval are believed to be contaminated by fuel oil.

No groundwater was encountered during the underground heating oil tank excavation which reached a depth of 16.0 feet. Groundwater was encountered in the four soil borings at depths of 10.0 to 15.0 feet. No groundwater samples could be collected due to sand clogging the collection bailer. Since no groundwater samples were collected, the impact to groundwater could not be assessed.

Based on the soil borings completed at the site, the area of contamination is believed to be isolated to soils below the north end of the tank bed, from 8.0 to 20.0 feet. The horizontal migration of contamination appears to have been minimal.

Aqua-Tech, Inc. estimates that approximately 40 yards of fuel oil contaminated soil exists at the site. Aqua-Tech, Inc. recommends that the contaminated soil be excavated and disposed of off-site.

2.0 SITE BACKGROUND

2.1 Introduction

This section includes information obtained from the on-site operations and the site representative interview.

2.2 Site Location

The Serigraph, Inc. site is located at 760 Indiana Avenue, West Bend, Wisconsin. Serigraph, Inc. occupies approximately five acres of residential/commercial area in Washington County, Wisconsin (See Figure 2-1).

2.3 Site Geology

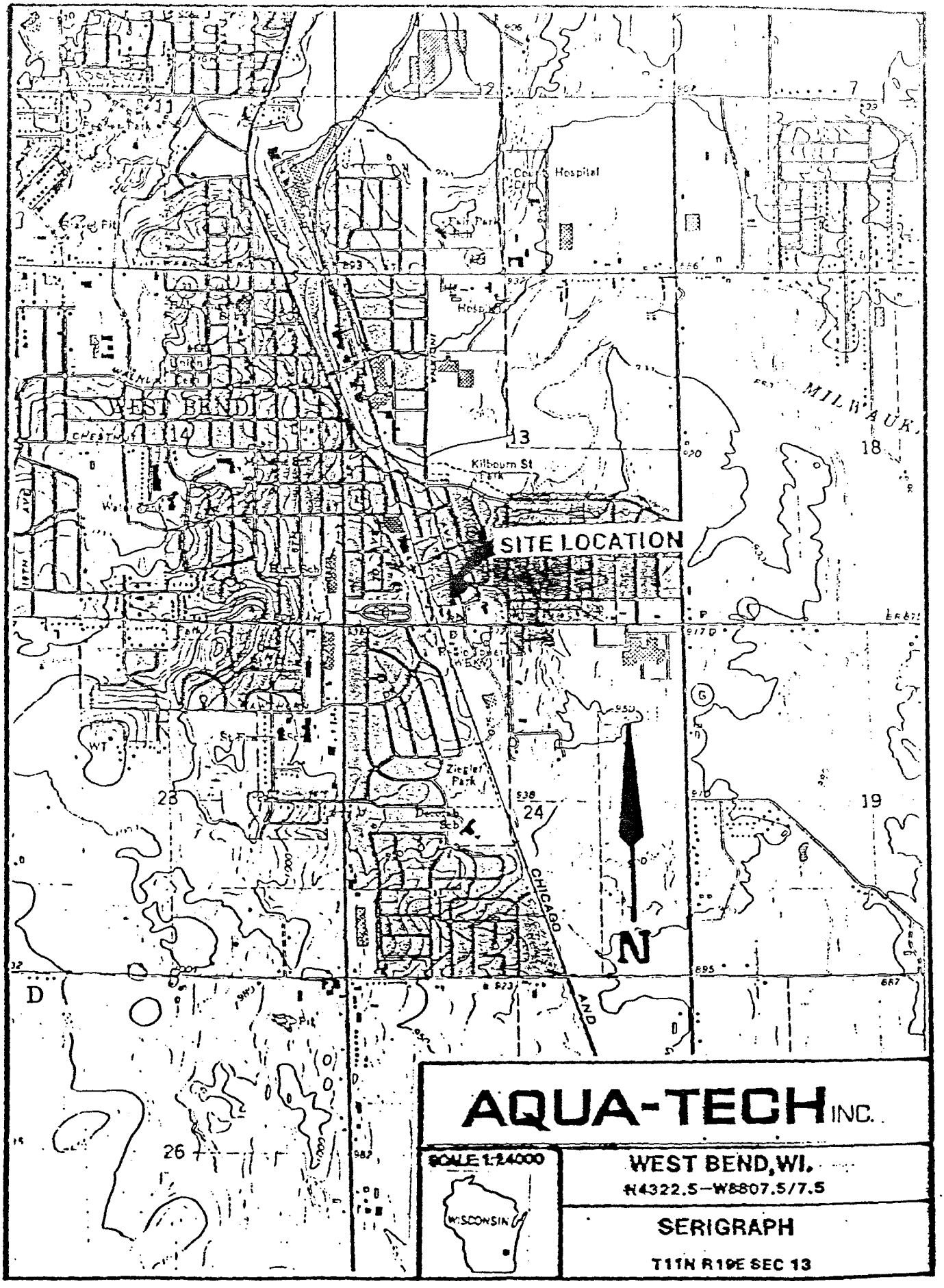
The site is located in the Eastern Ridges and Lowlands Province in southeastern Wisconsin. Glaciation has been an important agent in determining the geology and physiography of the site. It is part of the eastern end moraine of the Green Bay lobe of the Wisconsinan ice sheet deposited during the Woodfordian time.

The soils encountered within the excavation at the site consisted of sands, gravels, and silty clays which are consistent with the regional complex of soils typical of the glaciated uplands of southeastern Wisconsin.

Bedrock in the area is buried to varying depths by glacial deposits. Regionally, it consists of Silurian age dolomite of the Niagaran Series. Bedrock was not encountered in the soil borings which reached to a maximum depth of 23.0 feet.

Surface topography at the site slopes gently to the northeast. Based on surface topography, the regional groundwater flow is believed to be northeast toward the Milwaukee River, located 2,000 feet north of the site.

FIGURE 2-1


WEST BEND
SITE LOCATION
Hospital
Kilbourn St
Park
Ziegler Park
CHICAGO
AND
MILWAUK
13
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N
AQUA-TECH INC.
SCALE 1:24000
WISCONSIN
WEST BEND, WI.
N4322.5-W8807.5/7.5
SERIGRAPH
T11N R19E SEC 13

2.4 Site History

The Serigraph, Inc. facility was built in 1955. Specialty graphics products are manufactured at the facility. The 2,000 gallon underground heating oil tank was installed on the east side of the building at the time of facility construction. See Figure 3-1 for tank bed location. The underground heating oil tank was used to store fuel oil and served as the only fuel sources from 1955 through 1970. In 1970 natural gas became the primary fuel source at the site. From 1970 until 1990 the underground heating oil tank was filled with fuel oil and served as a back-up energy supply.

3.0 SITE ASSESSMENT PROCEDURES AND FIELD OBSERVATIONS

3.1 Introduction

This section outlines procedures and observations of the underground heating oil tank closure assessment at the Serigraph, Inc. site in West Bend, Wisconsin. Individual subsections address specific assessment activities including field observations, sampling procedures, and chain of custody procedures.

3.2 Field Observations

Vance Jackson and Peter Pavalko of Aqua-Tech arrived at the Serigraph, Inc. site on August 15, 1990, to observe the underground heating oil tank removal process. Also present on the site was Inspector R. Labuda of the West Bend Fire Department. The underground heating oil tank was excavated and disposed of by Petroleum Equipment, Inc., 3950 West Douglas Avenue, Milwaukee, Wisconsin, in accordance with Department of Industry, Labor, and Human Relations (DILHR) requirements.

The 2,000 gallon underground heating oil tank and associated piping were located on the east side of the Serigraph, Inc. building, approximately 46 feet west of the Indiana Avenue centerline. The tank bed was covered by grass and small shrubs. Site photographs are provided in Appendix A.

Removal of the Underground Storage Tank

Prior to the underground heating oil tank excavation, approximately 1800 gallons of fuel oil were pumped from the tank. During the excavation process the tank appeared to be in good condition despite its advanced age (35 years). However, closer inspection of the underground heating oil tank

upon its removal did identify a one inch sherical hole along the seam of the bottom of the north end of the tank.

Soil in the north end of the tank bed, below the hole, did have a marked petroleum odor and dark stain. Screening of soil from this contaminated area with a PID indicated the presence of VOCs in the 20-30 ppm range. Soil sample SS-1 was collected in this area at a depth of 7.0 feet. The walls and floor of the entire tank bed were screened with a PID on a 2 foot by 2 foot grid pattern. The presence of VOCs was detected only on the north end of the tank bed.

The excavation was continued to a depth of 16.0 feet in the contaminated area (north end of tank bed) in an attempt to identify the vertical extent of contamination. Soil sample SS-2 was collected from a depth of 16.0 feet from the bucket of the backhoe. Soil from the bucket had a PID reading of 6 ppm.

Serigraph, Inc. representative, Tom Ravn was advised of the situation by Aqua-Tech. The decision was made to backfill the excavation and schedule soil boring to determine the vertical and horizontal extent of contamination. Care was taken to segregate the contaminated and uncontaminated soil upon its return to the excavation. An impermeable plastic liner separated the two soils. In addition, a plastic barrier was placed over the top of the excavation to prevent precipitation from percolating through the excavated soils.

3.3 Soil Borings

Four soil borings were completed by Aqua-Tech, Inc. on August 22, 1990. The purpose of the borings was to delineate the extent of soil contamination identified on August 15, 1990 during the excavation of the 2,000 gallon underground heating oil tank.

Soil Sample Locations

Soil borings B-1, B-2, and B-3 were completed around the perimeter of the tank bed to the north, northeast, and southeast (Refer to Figure 3-1 for sampling location). The purpose of these borings was to identify any horizontal migration of contamination from the tank bed. The Serigraph facility is located directly west of the tank bed.

Soil boring B-4 was completed through the north end of the tank bed, previously identified during the excavation as being contaminated. The purpose of this boring was to determine the vertical extent of contamination.

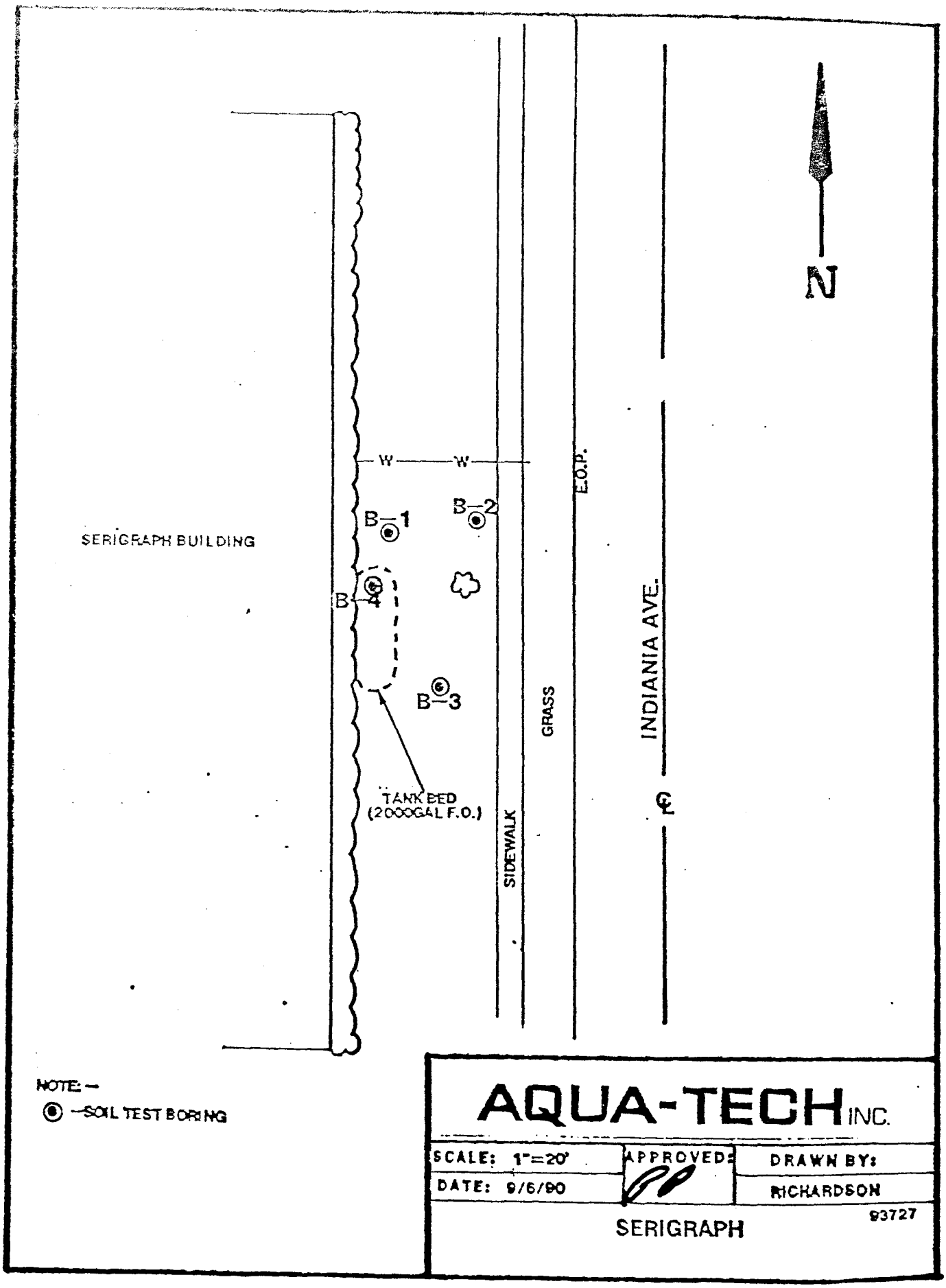
Soil sample B-1 was collected as a grab sample from soil boring B-1 at the 17.0 to 19.0 foot depth interval. Soil sample B-2 was collected as a grab sample from boring B-2 at the 7.0 to 9.0 foot depth interval. Soil sample B-3 was collected as a grab sample from boring B-3 at the 15.0 to 17.0 foot depth interval. Soil sample B-4 and B-44 were collected as grab samples from soil boring B-4 at the 17.0 to 19.0 and 21.0 to 23.0 foot depth intervals, respectively.

Groundwater was encountered in each boring at depths ranging from 10.0 to 15.0 feet. However, no water samples could be collected due to sand infiltration into the borehole which clogged the bailer.

Soil Sample Procedures

Subsurface soil samples were collected with a truck mounted rotary drill equipped with hollow stem augers and a two inch diameter, 24 inch split spoon sampler. The split spoon sampler was advanced by conventional methods, including the attachment of the sampler to an AW rod and standard 140 pound hammer.

FIGURE 3-1


N
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E.O.P.
B-1
B-2
B-4
B-3
SERIGRAPH BUILDING
INDIANIA AVE.
GRASS
SIDEWALK
TANK BED
(2000GAL F.O.)
NOTE:-
-SOIL TEST BORING
AQUA-TECH INC.
SCALE: 1"=20'
APPROVED:
DRAWN BY:
DATE: 9/6/90
RICHARDSON
93727
SERIGRAPH

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

Samples selected for laboratory analyses were stored in clean 4 ounce jars and cooled to 4°C for transport to the laboratory. Additional subsurface soil samples were collected, warmed and field screened with a PID. The depth and PID reading for each sample was recorded on soil profile logs (See Appendix B).

Upon completion of sampling, the borehole was completely backfilled with bentonite and abandoned according to Wisconsin Administrative Code N.R. 141.25 (See Appendix B).

3.4 Chain of Custody Procedures

This section describes procedures used for sample identification and chain of custody. The purpose of these procedures is to ensure that the quality of the samples is maintained during their collection, 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, physically preserved, and sealed immediately after collection. To minimize handling of sample containers, labels are filled out prior to sample collection. The sample label is completed using waterproof ink and is

firmly affixed to the sample containers. 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 (See Appendix C) is fully completed in triplicate by the Aqua-Tech sampler immediately following sample collection.

Transfer of Custody Shipment

The cooler in which the samples are packed is 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 samples and verifies that 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.

4.0 ANALYTICAL PROCEDURES AND RESULTS

4.1 Introduction

This section includes results of chemical analyses of Aqua-Tech collected soil samples from the tank bed excavation (SS-1 and SS-2) and soil borings B-1, B-2, B-3, and B-4 for total petroleum hydrocarbons (TPH) as gasoline and benzene, toluene, ethylbenzene, and xylenes (BTEX). Samples were analyzed at the NET Midwest Laboratory in Rockford, Illinois.

4.2 Analytical Procedures

Soil samples were analyzed for TPH and BTEX by the Modified California Method, and EPA Method 8240, respectively. Total lead, pH, free liquids and flash point were determined by using EPA Methods 7450, 8045-40 and 9095 and 1010, respectively.

Analytical methodology references for each sampling task contain specific quality control (QC) criteria associated with the particular methods. These specific requirements include calibration and QC samples and are described in detail within the methods. Daily performance tests and demonstration of precision and accuracy are required.

4.3 Results of Chemical Analyses of Aqua-Tech Collected Samples

Chemical analyses of soil samples SS-1 and SS-2 collected during the tank bed excavation yielded the following results:

* Total petroleum hydrocarbons (TPH) were detected at concentrations of 18,900 mg/kg in soil sample SS-1 collected from the north wall/floor of the tank bed excavation.
* Petroleum hydrocarbons were not detected above the WDILHR 10 mg/kg remedial action level in soil sample SS-

2 collected from a depth of 16.0 feet below the north end of the tank bed.

* Laboratory analysis of soil sample SS-1 indicated elevated levels of toluene (590 ug/kg) and xylenes (17,000 ug/kg).

* EP toxicity lead at a level of 0.08 ppm was identified in soil sample SS-1.

Chemical analysis of soil samples collected from soil borings completed around the perimeter of the tank bed (B-1, B-2, B-3) and through the north end of the tank bed (B-4, B-44) yielded the following results:

* Total petroleum hydrocarbons were not detected above the 10 mg/kg laboratory detection limit from soil samples B-1, B-2, B-3, B-4, and B-44.

Table 4-1 and 4-2 contains the laboratory results of the collected soil samples. Complete laboratory results are provided in Appendix C. All results were calculated on a dry weight basis as required by WDILHR.

TABLE 4-1

CHEMICAL ANALYSES OF SITE CLOSURE SOIL SAMPLES

SERIGRAPH, INC.

WEST BEND, WISCONSIN

DATE COLLECTED: 8/15/90

Parameter	Soil Sample 1	Soil Sample 2
Photoionization Detector Reading (ppm)	30	6
Total Solids (%)	88.62	81.28
TPH (mg/kg)*	18,900**	<10.0
Laboratory Detection Limits (mg/kg)	10.0	10.0
Benzene (ug/kg) (ppb)	500	
Ethylbenzene (ug/kg)	500	
Toluene (ug/kg)	590	
Xylene (ug/kg)	17,000	
Free Liquids (Paint Filler)	No liquid	
Total Lead (ug/g)	12.5	
EP Toxic Lead (mg/L)	0.08	
pH	7.84	
Flashpoint	>210	

* All TPH results reported on a dry weight basis as required by WDILHR.

** Ten mg/kg is the maximum level of petroleum contamination allowed in soil before remediation is required by the Wisconsin DILHR.

TABLE 4-2

CHEMICAL ANALYSES OF SOIL BORING SOIL SAMPLES

SERIGRAPH, INC.

WEST BEND, WISCONSIN

DATE COLLECTED: 8/22/90

Sample Number	Depth Interval (feet)	Total Petroleum Hydrocarbons (mg/kg)*	Laboratory Detection Limits(mg/kg)	Maximum Photoionization Meter Readings (ppm)
B-1	17.0 to 19.0	<10**	10	0
B-2	9.0 to 11.0	<10	10	0
B-3	15.0 to 17.0	<10	10	0
B-4	17.0 to 19.0	<10	10	0.2
B-44	21.0 to 23.0	<10	10	0

* All results are calculated on a dry weight basis.

** Ten mg/kg is the maximum level of TPH contamination allowed in soil before remediation is required by the Wisconsin Department of Industry, Labor, and Human Relations.

5.0 DISCUSSION

5.1 Introduction

This section discusses data and information that apply to observed and potential contamination that may be attributable to the Serigraph, Inc. underground heating oil tank site.

5.2 Soil

Based on the results of the tank closure assessment and the soil borings completed at the site, Aqua-Tech, Inc. estimates that approximately 40 cubic yards of contaminated soil exists below the north end of the tank bed.

Observations made during the tank excavation and from soil borings completed around the perimeter of the tank bed indicate that the horizontal migration of contamination from the underground storage tank has been minimal. Soil samples B-4 and B-44, collected from 17.0 to 23.0 feet below the north end of the tank bed indicate that the vertical extent of contamination does not extend more than 20.0 feet deep.

5.3 Groundwater

It was not possible to collect a groundwater sample during the soil borings due to sand entering the boring and subsequently clogging the bailer. Since no groundwater samples were collected, the impact to groundwater could not be assessed.

6.0 RECOMMENDATIONS

Aqua-Tech, Inc. recommends that the contaminated soil (approximately 40 cubic yards) be excavated and disposed of off-site. The excavation will continue until all contaminated soil is removed. Aqua-Tech, Inc. recommends that the excavated soil be disposed of at Parkview Landfill in Menomonee Falls, Wisconsin. Aqua-Tech, Inc. estimates the cost of this work to be $3,960.56. An itemized list of estimated expenses associated with the remedial work is provided in Appendix D.

A disposal option other than landfilling is available. Payne & Dolan, Inc., in Waukesha, Wisconsin will accept petroleum contaminated soil. Payne & Dolan will require a sample of the contaminated soil to be tested for a variety of other components before it will accept the soil. Aqua-Tech, Inc. estimates the cost of asphalt plant disposal to be $8,950.36. An itemized list of estimated expenses associated with this option is provided in Appendix E.

If it is determined during the excavation process that groundwater is entering the excavation, a collection sump will be installed, at an additional cost, prior to backfilling of the excavation.

APPENDIX A

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Serioraph, Inc. PAGE 1 OF 2

DATE: 8/22/90

TIME: 8:30 a.m.

DIRECTION OF PHOTOGRAPH:

West

WEATHER CONDITIONS:

Cloudy

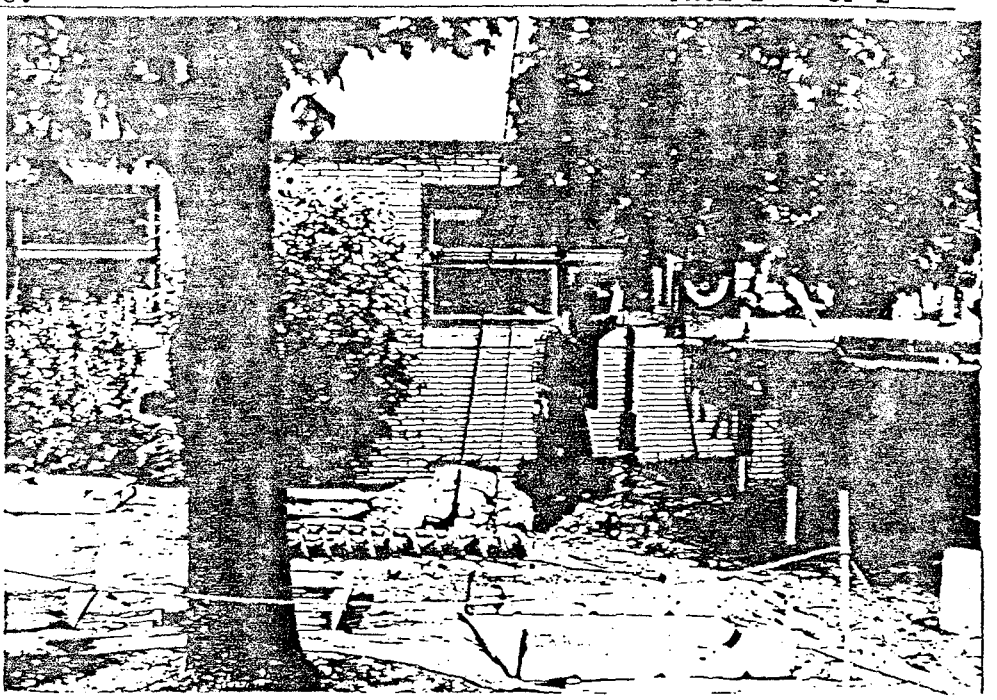
20°C

PHOTOGRAPHED BY:

Pete Pavalko

SAMPLE ID: (If Applicable):

B-1



DESCRIPTION: The location of soil boring B-1 as seen from Indiana Avenue. The north end of the tank bed is approximately 5 feet to the south (left) of the boring.

DATE: 8/22/90

TIME: 9:30 a.m.

DIRECTION OF PHOTOGRAPH:

West

WEATHER CONDITIONS:

Cloudy

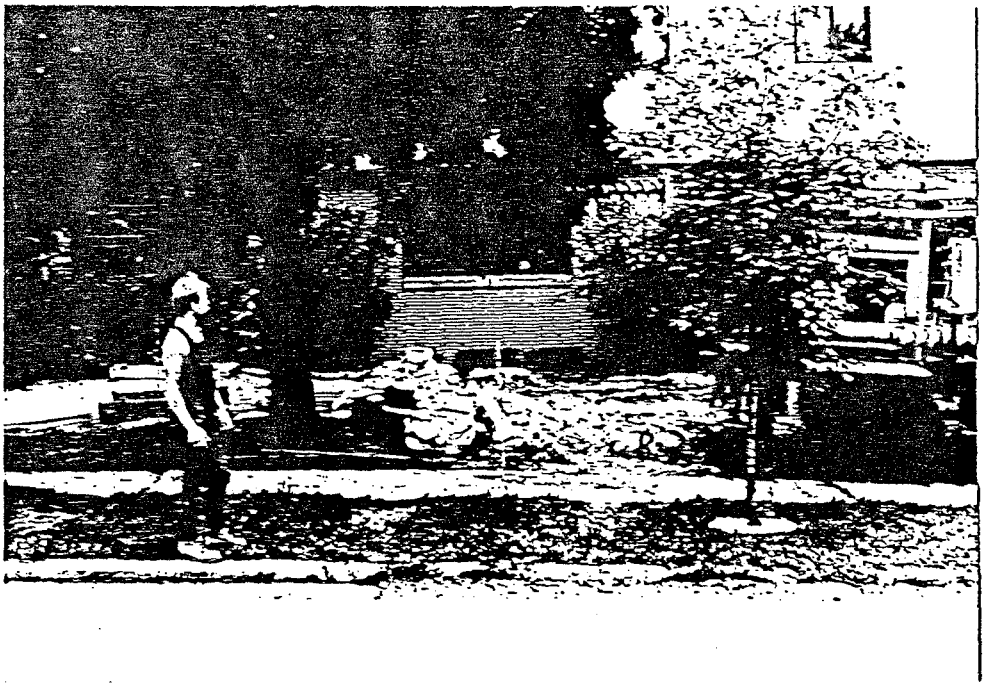
20°C

PHOTOGRAPHED BY:

Pete Pavalko

SAMPLE ID: (If Applicable):

B-2



DESCRIPTION: The location of boring B-2 as seen from Indiana Avenue.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Ferlograph, Inc.

DATE: 8/22/90

TIME: 11:00 a.m.

DIRECTION OF PHOTOGRAPH:

North

WEATHER CONDITIONS:

Cloudy

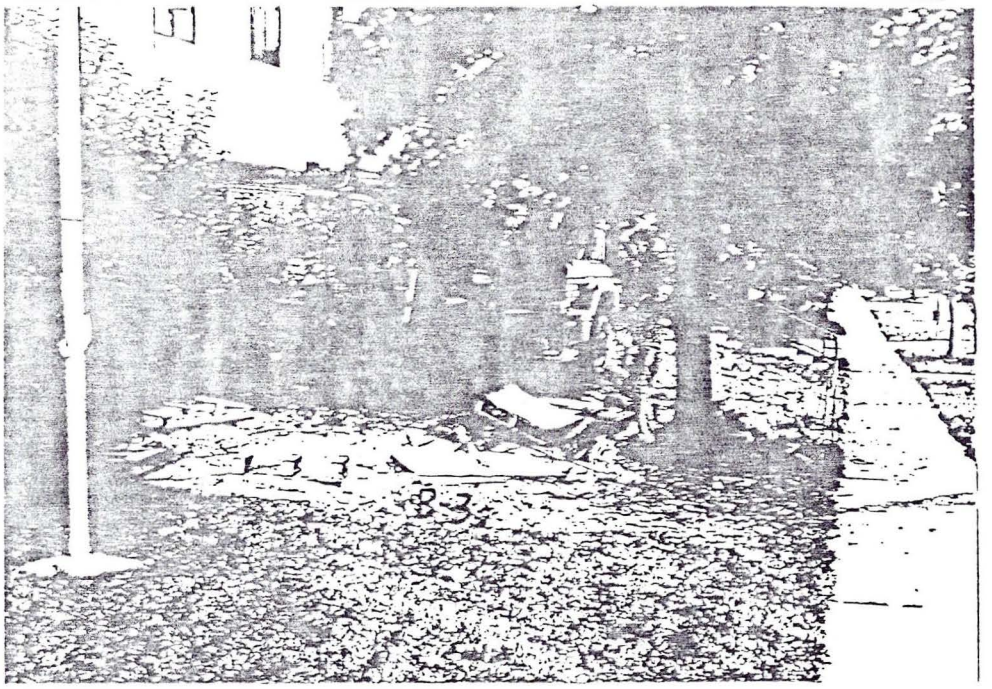
20°C

PHOTOGRAPHED BY:

Pete Pavalko

SAMPLE ID: (If Applicable):

B-3, B-4



DESCRIPTION: The location of soil boring B-3 and B-4 are indicated on the photograph.

DATE: 8/22/90

TIME: 11:00 a.m.

DIRECTION OF PHOTOGRAPH:

Northwest

WEATHER CONDITIONS:

Cloudy

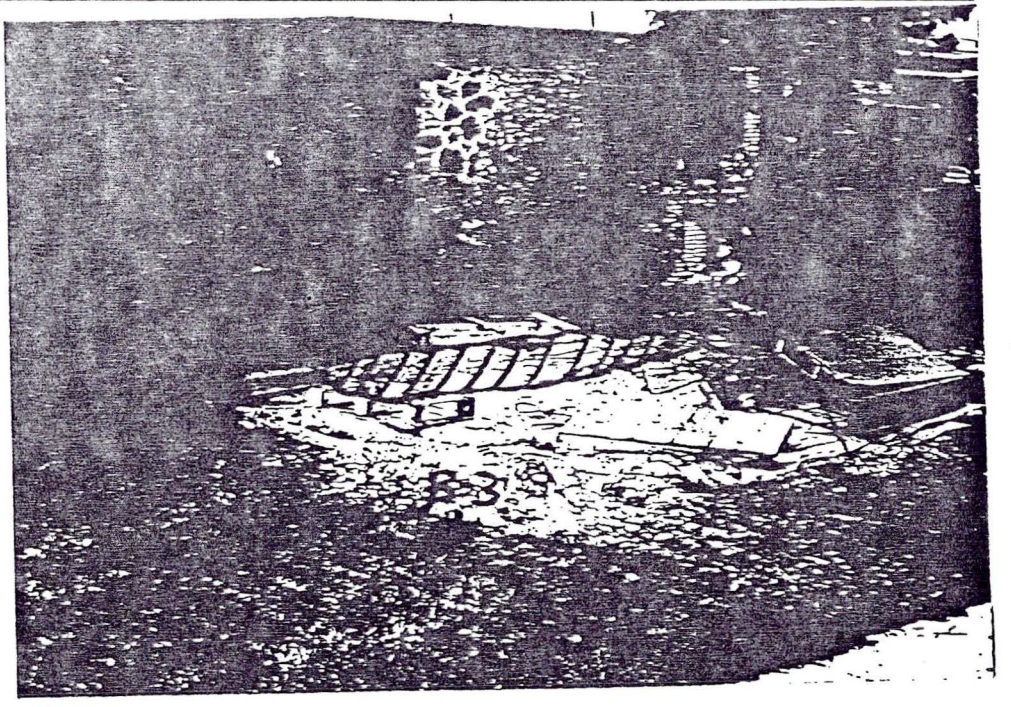
20°C

PHOTOGRAPHED BY:

Pete Pavalko

SAMPLE ID: (If Applicable):

B-3, B-4



DESCRIPTION: The approximate location of the 2,000 gallon UST prior to its excavation.

APPENDIX B

AQUA-TECH, INC
140 S. PARK ST.
PORT WASHINGTON, WI 53074
TELEPHONE:
(414) 284-5746
(414) 375-0407 (MILW METRO)

SOIL PROFILE LOG

PROJECT: SERIGRAPH INC
LOCATION: WEST BEND, WI
PROJECT#:
ATI NO#: 93727

BORING B-1 SURFACE ELEVATION _____

SAMPLES NO.	(bpf) MOISTURE	REC	HNU LEVELS (PPM)	DEPTH (FT)	DESCRIPTION AND REMARKS
				0.0	
	DRY		0	5.0	5.0' - 7.0' LT BROWN MEDIUM GRAINED SAND
			.5		7.0' - 9.0' SAND W/TRACE OF GRAVEL, SILT
	MOIST		0	10.0	9.0' - 11.0' GREY SAND W/TRACE OF SILT
	WET		0	▽	11.0' - 13.0' SAND
			0		13.0' - 15.0' VERY FINE SAND TO SILT
	V. WET		0		15.0' - 17.0' VERY FINE SAND
B-1			0	17.0	17.0' - 19.0' VERY FINE SAND/SILT
					19.0' - 20.0' SAND
				20.0	TERMINATED BORING AT 20.0'

*SOIL SAMPLE B-1: 17.0' - 19.0'
*AUGERED TO 20.0' LOTS OF WATER IN HOLE, BUT SAND HELD UP BALL IN BAILER AND WATER RUNS OUT
*NO BEDROCK ENCOUNTERED

WATER LEVEL OBSERVATIONS

WHILE DRILLING 12.0'▽
DEPTH TO WATER ----
DEPTH TO CAVE-IN ----

GENERAL INFORMATION

START DATE 8/22/90 COMPLETION DATE 8/22/90
DRILLING METHOD: HOLLOW STEM AUGERS; SPLIT SPOON SAMPLING
LOGGER: Peter C. Parolin

AQUA-TECH, INC
140 S. PARK ST.
PORT WASHINGTON, WI 53074
TELEPHONE:
(414) 284-5746
(414) 375-0407 (MILW METRO)

SOIL PROFILE LOG

PROJECT: BERIGRAPH INC
LOCATION: WEST BEND, WI
PROJECT#:
ATI WO#: 93727

BORING B-2 SURFACE ELEVATION _____

SAMPLES NO.	(bpf) MOISTURE	REC	HNU LEVELS (PPM)	DEPTH (FT)	DESCRIPTION AND REMARKS
				0.0	SAND
	DRY		0	5.0	5.0' - 7.0' FINE SAND W/TRACE OF SILT
B-2	WET		0	▽	7.0' - 9.0' POOR RECOVERY, SAND/SILT
	V. WET				9.0' - 11.0' FINE SAND
			0		11.0' - 13.0' FINE SAND - POOR RECOVERY
			0		13.0' - 15.0' VERY FINE SAND
			0 (CUTTINGS)		15.0' - 18.0' SAND
					18.0' - 20.0' VERY FINE SAND
				20.0	TERMINATED BORING AT 20.0'

*SOIL SAMPLE B-2: 9.0' - 11.0'
#NO WATER SAMPLE COLLECTED DUE TO CAVING IN AT BOTTOM OF AUGER
#NO BEDROCK ENCOUNTERED

WATER LEVEL OBSERVATIONS

WHILE DRILLING 10.0'▽
DEPTH TO WATER ----
DEPTH TO CAVE-IN ----

GENERAL INFORMATION

START DATE 8/22/90 COMPLETION DATE 8/22/90
DRILLING METHOD: HOLLOW STEM AUGERS; SPLIT SPOON SAMPLING
LOGGER: Robert G. Powalka

AQUA-TECH, INC
140 S. PARK ST.
PORT WASHINGTON, WI 53074
TELEPHONE:
(414) 284-5746
(414) 375-0407 (MILW METRO)

SOIL PROFILE LOG

PROJECT: ERRIGRAPH INC
LOCATION: WEST BEND, WI
PROJECT#:
ATI WO#: 93727

BORING B-3 SURFACE ELEVATION

SAMPLES NO.	(bpf) MOISTURE	REC	HNU LEVELS (PPM)	DEPTH (FT)	DESCRIPTION AND REMARKS
				0.0	
			0 (CUTTINGS)		SILT SAND
					SAND
				5.0	
	DRY		0		5.0' - 6.0' GRAVEL/SILT
					6.0' - 7.0' SAND/SILT
			0 - (CUT)		7.0' - 8.0' BROWN SILT
			0		8.0' - 9.0' SILT
					9.0' - 10.0' SAND
	MOIST		0 (CUTTINGS)		10.0' - 13.0' SAND
			0	▽	13.0' - 15.0' POOR RECOVERY - 3PPM OFF END OF SPLIT SPOON
B-3	V. WET		0		15.0' - 17.0' FINE SAND
					17.0' - 20.0' SAND
				20.0	20.0' - 22.0' VERY FINE WET SAND
				22.0	TERMINATED BORING AT 22.0'

*SOIL SAMPLE B-3: 15.0' - 17.0'
#NO BEDROCK ENCOUNTERED
*SPOON-WATER ENCOUNTERED AT 15.0', NO SAMPLE COLLECTED DUE TO SAND COMING INTO BOREHOLE

WATER LEVEL OBSERVATIONS

WHILE DRILLING 15.0'▽
DEPTH TO WATER ----
DEPTH TO CAVE-IN ----

GENERAL INFORMATION

START DATE 8/22/90 COMPLETION DATE 8/22/90
DRILLING METHOD: HOLLOW STEM AUGERS; SPLIT SPOON SAMPLING
LOGGER: Peter E. Pavlik

AQUA-TECH, INC
140 S. PARK ST.
PORT WASHINGTON, WI 53074
TELEPHONE:
(414) 284-5746
(414) 375-0407 (MILW METRO)

SOIL PROFILE LOG

PROJECT: SERIGRAPH INC
LOCATION: WEST BEND, WI
PROJECT#:
ATI WO#: 93727

BORING B-4 SURFACE ELEVATION

SAMPLES NO.	(bpf) MOISTURE	REC	HNU LEVELS (PPM)	DEPTH (FT)	DESCRIPTION AND REMARKS
				0.0	GRAVEL FILL PLASTIC *AUGERED THROUGH FILL CLEAN SOIL
				5.0	
	MOIST		3		8.0' - 10.0' VERY FINE SAND
					10.0' - 15.0' SAND
				▽	
	WET		25		15.0' - 17.0' SAND TOP 1.0' = 25PPM
			0		BOTTOM 1.0' = 0PPM
B-4			.2		17.0' - 19.0' VERY FINE COMPACT SAND
	V. WET		0	20.0	19.0' - 21.0' VERY FINE SAND - PETROLEUM SHEEN IN WATER FROM SPLIT SPOON
B-44			0		21.0' - 23.0' VERY FINE SAND
				23.0	TERMINATED BORING AT 23.0'
					*SOIL SAMPLE B-4: 17.0' - 19.0' B-44: 21.0' - 23.0'

WATER LEVEL OBSERVATIONS

WHILE DRILLING 15.0'▽
DEPTH TO WATER ----
DEPTH TO CAVE-IN ----

GENERAL INFORMATION

START DATE 8/22/90 COMPLETION DATE 8/22/90
DRILLING METHOD: HOLLOW STEM AUGERS; SPLIT SPOON SAMPLING
LOGGER: Peter E. Pavalko

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE ABANDONMENT

Form 3300-5 Rev. 6-87

(1) GENERAL INFORMATION

Well/Drillhole Location — County: WASHINGTON

SE 1/4 of SW 1/4 of Sec. 13 ; T. 11 N; R. 19 [X] E [ ] W

(If Applicable) Gov't Lot ____ Grid Number ____

Civil Town Name: WEST BEND

Street Address of Well: 760 INDIANA AVE

City, Village: WEST BEND

Date of Abandonment: 8-22-90

(2) FACILITY NAME

Original Well Owner (If Known): SERIGRAPH INC.

Present Well Owner

Street or Route

City, State, Zip Code

Well Number and/or Name (If Applicable): B-1

Reason For Abandonment: Soil boring completed

WELL/DRILLHOLE INFORMATION

(3) Original Well/Drillhole Construction Completed on (Date): 8-22-90

[ ] Water Well
[X] Drillhole

Construction Report Available? [X] Yes [ ] No

Construction Type:
[X] Drilled [ ] Driven (Sandpoint) [ ] Dug
[ ] Other (Specify)

Well Type:
[ ] Unconsolidated Formation Well [ ] Bedrock Well

Total Well Depth (ft.) 20 Casing Diameter (ins.) ____

Casing Depth (ft.) ____

Was Well Annular Space Grouted? [ ] Yes [ ] No [ ] Unknown
If Yes, To What Depth? ____ Feet

(4) Depth to Water (Feet) 12.0

Pump & Piping Removed?	[ ] Yes	[ ] No	[X] Not Applicable
Liner(s) Removed?	[ ] Yes	[ ] No	[X] Not Applicable
Screen Removed?	[ ] Yes	[ ] No	[X] Not Applicable
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 Drillhole Retopped?	[ ] Yes	[ ] No

(5) Required Method of Placing Sealing Material
[ ] Conductor Pipe-Gravity [ ] Conductor Pipe-Pumped
[ ] Dump Bailer [ ] Other (Explain) ____

(6) Acceptable Sealing Materials
Neat Cement Grout; Cement Grout; Concrete; Clay Slurry; Sodium Bentonite Slurry

(7) Kind of Sealing Material	From (Ft.)	To (Ft.)	No. Yards or Sacks Sealant	Mix Ratio or Mud Weight
BENTONITE Clay	Surface	20		100%

(8) Comments:

(9) Name of Person or Firm Doing Sealing Work: AQUA TECH, INC.

Signature of Person Doing Work: Peter E. Parulski — Date Signed: 8-27-90

Street or Route: 140 S. Park St — Telephone Number: (414) 284-5746

City, State, Zip Code: Pt WASHINGTON WI 53074

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected ____ District/County ____

Reviewer/Inspector ____

Follow-up Necessary ____

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE ABANDONMENT

Form 3300-5 Rev. 6-87

(1) GENERAL INFORMATION

Well/Drillhole Location — County: WASHINGTON

SE 1/4 of SW 1/4 of Sec. 13 ; T. 11 N; R. 19 [X] E [ ] W

(If Applicable) Gov't Lot ____ Grid Number ____

Civil Town Name: WEST BEND

Street Address of Well: 760 INDIANA AVE

City, Village: WEST BEND

Date of Abandonment: 8-22-90

(2) FACILITY NAME

Original Well Owner (If Known): SERIGRAPH INC.

Present Well Owner

Street or Route

City, State, Zip Code

Well Number and/or Name (If Applicable): B-2

Reason For Abandonment: Soil boring completed

WELL/DRILLHOLE INFORMATION

(3) Original Well/Drillhole Construction Completed on (Date): 8-22-90

[ ] Water Well
[X] Drillhole

Construction Report Available? [X] Yes [ ] No

Construction Type:
[X] Drilled [ ] Driven (Sandpoint) [ ] Dug
[ ] Other (Specify)

Well Type:
[ ] Unconsolidated Formation Well [ ] Bedrock Well

Total Well Depth (Ft.) 20 Casing Diameter (Ins.) ____

Casing Depth (Ft.) ____

Was Well Annular Space Grouted? [ ] Yes [ ] No [ ] Unknown
If Yes, To What Depth? ____ Feet

(4) Depth to Water (Feet) 10.0

Pump & Piping Removed? [ ] Yes [ ] No [X] Not Applicable
Liner(s) Removed? [ ] Yes [ ] No [X] Not Applicable
Screen Removed? [ ] Yes [ ] No [X] Not Applicable
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 Drillhole Retopped? [ ] Yes [ ] No

(5) Required Method of Placing Sealing Material
[ ] Conductor Pipe-Gravity [ ] Conductor Pipe-Pumped
[ ] Dump Bailer [ ] Other (Explain)

(6) Acceptable Sealing Materials
Neat Cement Grout; Cement Grout; Concrete; Clay Slurry; Sodium Bentonite Slurry

(7) Kind of Sealing Material	From (Ft.)	To (Ft.)	No. Yards or Sacks Sealant	Mix Ratio or Mud Weight
BENTONITE Clay	Surface	20.0		100%

(8) Comments:

(9) Name of Person or Firm Doing Sealing Work: AQUA TECH, INC.

Signature of Person Doing Work: Robert E. Powalka — Date Signed: 8-27-90

Street or Route: 140 S. Park St — Telephone Number: (414) 284-5746

City, State, Zip Code

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected — District/County

Reviewed/Inspected

Follow-up Necessary

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE ABANDONMENT

Form 3300-5 Rev. 6-87

(1) GENERAL INFORMATION

Well/Drillhole Location — County: WASHINGTON

SE 1/4 of SW 1/4 of Sec. 13 ; T. 11 N, R. 19 [X] E [ ] W

(If Applicable) Gov't Lot ____ Gov't Number ____

Civil Town Name: WEST BEND

Street Address of Well: 760 INDIANA AVE

City, Village: WEST BEND

Date of Abandonment: 8-22-90

(2) FACILITY NAME

Original Well Owner (If Known): SERIGRAPH INC.

Present Well Owner

Street or Route

City, State, Zip Code

Well Number and/or Name (If Applicable): B-3

Reason For Abandonment: Soil boring completed

WELL/DRILLHOLE INFORMATION

(3) Original Well/Drillhole Construction Completed on (Date): 8-22-90

[ ] Water Well
[X] Drillhole

Construction Report Available? [X] Yes [ ] No

Construction Type:
[X] Drilled [ ] Driven (Sandpoint) [ ] Dug
[ ] Other (Specify)

Well Type:
[ ] Unconsolidated Formation Well [ ] Bedrock Well

Total Well Depth (ft.) 22.0 Casing Diameter (ins.) ____

Casing Depth (ft.) ____

Was Well Annular Space Grouted? [ ] Yes [ ] No [ ] Unknown
If Yes, To What Depth? ____ Feet

(4) Depth to Water (Feet) 15.0

Pump & Piping Removed? [ ] Yes [ ] No [X] Not Applicable
Liner(s) Removed? [ ] Yes [ ] No [X] Not Applicable
Screen Removed? [ ] Yes [ ] No [X] Not Applicable
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 Drillhole Retopped? [ ] Yes [ ] No

(5) Required Method of Placing Sealing Material

[ ] Conductor Pipe-Gravity [ ] Conductor Pipe-Pumped
[ ] Dump Bailer [ ] Other (Explain) ____

(6) Acceptable Sealing Materials

Neat Cement Grout; Cement Grout; Concrete; Clay Slurry; Sodium Bentonite Slurry

(7) Kind of Sealing Material	From (Ft.)	To (Ft.)	No. Yards or Sacks Sealant	Mix Ratio or Mud Weight
BENTONITE Clay	Surface	22.0		100%

(8) Comments:

(9) Name of Person or Firm Doing Sealing Work: AQUA TECH, INC.

Signature of Person Doing Work: Peter E. Parulski — Date Signed: 8-27-90

Street or Route: 140 S. Park St — Telephone Number: (414) 284-5746

City, State, Zip Code

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected — District/County

Reviewed/Inspected

Follow-up Necessary

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE ABANDONMENT

Form 3300-5 Rev. 6-87

(1) GENERAL INFORMATION

Well/Drillhole Location — County: WASHINGTON

SE 1/4 of SW 1/4 of Sec. 13 ; T. 11 N; R. 19 [X] E [ ] W

(If applicable) ______ Gov't Lot ______ Grid Number

Civil Town Name: WEST BEND

Street Address of Well: 760 INDIANA AVE

City, Village: WEST BEND

Date of Abandonment: 8-22-90

(2) FACILITY NAME

Original Well Owner (If Known): SERIGRAPH INC.

Present Well Owner:

Street or Route:

City, State, Zip Code:

Well Number and/or Name (If Applicable): B-4

Reason For Abandonment: Soil boring completed

WELL/DRILLHOLE INFORMATION

(3) Original Well/Drillhole Construction Completed on (Date): 8-22-90

[ ] Water Well
[X] Drillhole

Construction Report Available? [X] Yes [ ] No

Construction Type:
[X] Drilled [ ] Driven (Sandpoint) [ ] Dug
[ ] Other (Specify)

Well Type:
[ ] Unconsolidated Formation Well [ ] Bedrock Well

Total Well Depth (ft.) 230 Casing Diameter (ins.) ______

Casing Depth (ft.) ______

Was Well Annular Space Grouted? [ ] Yes [ ] No [ ] Unknown
If Yes, To What Depth? ______ Feet

(4) Depth to Water (Feet) 15.0

Pump & Piping Removed? [ ] Yes [ ] No [X] Not Applicable
Liner(s) Removed? [ ] Yes [ ] No [X] Not Applicable
Screen Removed? [ ] Yes [ ] No [X] Not Applicable
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 Drillhole Retopped? [ ] Yes [ ] No

(5) Required Method of Placing Sealing Material
[ ] Conductor Pipe-Gravity [ ] Conductor Pipe-Pumped
[ ] Dump Bailer [ ] Other (Explain) ______

(6) Acceptable Sealing Materials
Neat Cement Grout; Concrete Grout; Concrete; Clay Slurry; Sodium Bentonite Slurry

(7)

Kind of Sealing Material	From (Ft.)	To (Ft.)	No. Yards or Sacks Sealant	Mix Ratio or Mud Weight
BENTONITE Clay	Surface	23.0		100%

(8) Comments:

(9) Name of Person or Firm Doing Sealing Work: AQUA TECH, INC.

Signature of Person Doing Work: Peter E. Paralta | Date Signed: 8-27-90

Street or Route: 140 S. Park St | Telephone Number: (414) 284-5746

City, State, Zip Code: [illegible]

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected | District/County

Reviewer/Inspector

Follow-up Necessary

APPENDIX C

4

~~[illegible] 1167~~ 2000
~~not used since 1970~~
.955
Installed?

AQUA ECH
GROUP LABORATORIES
CORPORATE
Aqua-Tech, Inc.
140 S. Park St., Port Washington, WI 53074
(414) 284-5746 FAX (414) 284-0243

CHAIN OF CUSTODY RECORD

PROJ. NO.: 93727

PROJECT NAME: SERIGRAPH (UST)

SAMPLERS: (Signature) [signature]

LAB NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TPH (Fuel oil)	SOLIDS %	BTEX	TOTAL LEAD EP if over 5 ppm	PH	Flash point	Free Liquids	SIEVE analysis for Asphalt treatment / REMARKS
	8-15	10:00	X		SS #1 7-8'	2	X	X	X	X	X	X	X	20-30 ppm FOR LANDFILL analysis
	8-15	10:30	X		SS #2 16'	1	X							6 ppm
	8-15	12:00	X		surface/STOCK pile	2								X

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time
[signature]	8-15 5:00pm		
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	
		[signature] 8-15-90 5:00 p.m.	

Report to:
Name: PETE PAVALKO
Street: 140 S Park St
City: PORT WASHINGTON State: WI Zip: 53012
Phone no. (41) 284-5746

Remarks: RETURN W/ ATI # 93727

NET 8-16-90
Sieve Analysis (Swanson 8-16-90)

Remarks

Distribution: White - Accompanies Shipment; Yellow - Laboratory File; Pink - Coordinator Field Files

AQUA-TECH GROUP LABORATORIES

CORPORATE
Aqua-Tech, Inc.
140 S. Park St., Port Washington, WI 53074
(414) 284-5746 FAX (414) 284-0247

CHAIN OF CUSTODY RECORD

PROJ. NO.	PROJECT NAME
93727	Seigraph (LUST)

SAMPLERS: *(Signature)*
Pete Pavalko

LAB NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TPH (Fuel Oil)	Solids %	BTEX	Total Pb	pH	Flash Point	Paint Filter	REMARKS
79505	8.15	10:00	X		SS #1 7-8'	2	X	X	X	X	X	X	X	
79506	8.15	10:30	X		SS #2 16'	1	X							
					Job # 90.2103									

Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time
Pete Pavalko	8-16 12:40		
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Date / Time
Relinquished by: *(Signature)*	Date / Time	Received for Laboratory by: *(Signature)*	
	8/17/90 1300	Donna Meyers	

Report to: Pete Pavalko
Name Aqua-Tech, Inc.
Street
City State Zip
Phone no. ( )

Remarks

Remarks

Distribution: White - Accompanies Shipment; Yellow - Laboratory File; Pink - Coordinator Field Files

AQUA TECH GROUP LABORATORIES

CORPORATE
Aqua-Tech, Inc.
140 S. Park St., Port Washington, WI 53074
(414) 284-5746 FAX (414) 284-0243

CHAIN OF CUSTODY RECORD

PROJ. NO. 93727

PROJECT NAME: SERIGRAPH

SAMPLERS: (Signature) [signature]

LAB NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	TPH (fuel oil)	% SOLIDS					REMARKS
79860	8-22-90	9:30		X	B-1 17-19'	1	X	X					HNU = 0
79861	↓	10:30		X	B-2 9-11'	1	X	X					HNU = 0
79862	↓	11:30		X	B-3 15-17'	1	X	X					HNU = 0
79863	↓	12:30		X	B-4 17-19'	1	X	X					HNU = 0.2
79864	↓	12:45		X	B-44 21-23'	1	X	X					HNU = 0

Job # 90.2198

Relinquished by: (Signature)	Date / Time		Received by: (Signature)	Date / Time	
[signature]	8-22-90	3:00pm	[signature]	8-22-90	3:30p.m.
[signature]	8-23-90	11:00a.m.			
			Received for Laboratory by: (Signature) [signature]	8-22-90	

Report to:
Name PETE Pavlik
Street
City ____ State ____ Zip ____
Phone no. ( )

Remarks: Include ATE# 93727 Serigraph and Station location with results

→ NET sign Here Please

Donna Myers 8/24/90 1330

Remarks

Distribution: White - Accompanies Shipment; Yellow - Laboratory File; Pink - Coordinator Field Files

NATIONAL
ENVIRONMENTAL
TESTING, INC.

NET Midwest, Inc.
Rockford Division
3548 35th Street
Rockford, IL 61109
Tel: (815) 874-2171
Fax: (815) 874-5622

ANALYTICAL REPORT

Mr. Pete Pavalko
AQUA-TECH INC.
140 South Park Street
Port Washington, WI 53074

09/11/1990

Sample No: 79505
Job No: 90.2103

SAMPLE DESCRIPTION: SS#1 7-8', Composite Soil
#93727 Serigraph UST

Date Taken: 08/15/1990

Date Received: 08/17/1990

Tot. Pet. Hydrocarbons	18,900.(comp. to Diesel)	mg/kg

Roline Milne

Roline Milne, Project Manager
Rockford Division

NATIONAL ENVIRONMENTAL TESTING, INC.

NET Midwest, Inc.
Rockford Division
3548 35th Street
Rockford, IL 61109
Tel: (815) 874-2171
Fax: (815) 874-5622

ANALYTICAL REPORT

Mr. Pete Pavalko
AQUA-TECH INC.
140 South Park Street
Port Washington, WI 53074

09/12/1990

Sample No: 79505
Job No: 90.2103

SAMPLE DESCRIPTION: SS#1 7-8', Composite Soil
#93727 Serigraph UST

Date Taken: 08/15/1990

Date Received: 08/17/1990

Solids, Total	88.62	%
Paint Filter	Y-Contains no liquid	
Lead	12.5	ug/g
Corrosivity (pH)	7.84	units
Ignitability (Flash Point)	No Flash @ 210.	Degree F
EP Tox - Lead	0.08	mg/L

Brian Wanner, Manager
Rockford Division

NATIONAL ENVIRONMENTAL TESTING, INC.

NET Midwest, Inc.
Rockford Division
3546 35th Street
Rockford, IL 61109
Tel: (815) 874-2171
Fax: (815) 874-5622

ANALYTICAL REPORT

Mr. Pete Pavalko
AQUA-TECH INC.
140 South Park Street
Port Washington, WI 53074

09/11/1990

Sample No: 79505
Job No: 90.2103

SAMPLE DESCRIPTION: SS#1 7-8', Composite Soil
#93727 Serigraph UST

Date Taken: 08/15/1990

Date Received: 08/17/1990

UST VOLATILE COMPOUNDS - 8240

Benzene	<500.	ug/kg
Ethylbenzene	<500.	ug/kg
Toluene	590.	ug/kg
Xylenes	17,000.	ug/kg

Roline Milne

Roline Milne, Project Manager
Rockford Division

NATIONAL ENVIRONMENTAL TESTING, INC.

NET Midwest, Inc.
Rockford Division
3548 35th Street
Rockford, IL 61109
Tel: (815) 874-2171
Fax: (815) 874-5622

ANALYTICAL REPORT

Mr. Pete Pavalko
AQUA-TECH INC.
140 South Park Street
Port Washington, WI 53074

09/11/1990

Sample No: 79506
Job No: 90.2103

SAMPLE DESCRIPTION: SS#2 16', Composite Soil
#93727 Serigraph UST

Date Taken: 08/15/1990

Date Received: 08/17/1990

Solids, Total	81.28	%
Tot. Pet. Hydrocarbons	<10.	mg/kg

Roline Milne

Roline Milne, Project Manager
Rockford Division

NATIONAL ENVIRONMENTAL TESTING, INC.

NET Midwest, Inc.
Rockford Division
3548 35th Street
Rockford, IL 61109
Tel: (815) 874-2171
Fax: (815) 874-5622

ANALYTICAL REPORT

Mr. Pete Pavalko
AQUA-TECH INC.
140 South Park Street
Port Washington, WI 53074

09/12/1990

Job No: 90.2198

JOB DESCRIPTION: ATI#93727 Serigraph Stat.

Date Taken: SEE BELOW

Date Received: 08/24/1990

79860	B-1 17-19', Grab Soil		08/22/1990	09:30
	Solids, Total	79.58		%
	Tot. Pet. Hydrocarbons	<10.		mg/kg
79861	B-2 9-11', Grab Soil		08/22/1990	10:30
	Solids, Total	83.63		%
	Tot. Pet. Hydrocarbons	<10.		mg/kg
79862	B-3 15-17', Grab Soil		08/22/1990	11:30
	Solids, Total	83.34		%
	Tot. Pet. Hydrocarbons	<10.		mg/kg
79863	B-4 17-19', Grab Soil		08/22/1990	12:30
	Solids, Total	85.59		%
	Tot. Pet. Hydrocarbons	<10.		mg/kg

Brian Wanner, Manager
Rockford Division

NATIONAL ENVIRONMENTAL TESTING, INC.

NET Midwest, Inc.
Rockford Division
3548 35th Street
Rockford, IL 61109
Tel: (815) 874-2171
Fax: (815) 874-5622

ANALYTICAL REPORT

Mr. Pete Pavalko
AQUA-TECH INC.
140 South Park Street
Port Washington, WI 53074

09/12/1990

Job No: 90.2198

JOB DESCRIPTION: ATI#93727 Serigraph Stat.

Date Taken: SEE BELOW

Date Received: 08/24/1990

79864 B-44 21-23', Grab Soil 08/22/1990 12:45

Solids, Total	82.81	%
Tot. Pet. Hydrocarbons	<10.	mg/kg

Brian Wanner, Manager
Rockford Division

SWANSON ENVIRONMENTAL INC.

3150 North Brookfield Road
Brookfield, Wisconsin 53045
telephone (414) 783-6111
facsimile (414) 783-5752

AIHA Accreditation #352
WDNR Certification #268181760

ANALYTICAL REPORT

REPORT NUMBER: B2534

Aqua-Tech, Inc.
140 South Park Street
Port Washington, WI 53704

Attn: Mr. Pete Pavalko

DATE: September 19, 1990
PURCHASE ORDER:
SEI JOB NO: WL3947
DATE COLLECTED: 08/15/90
DATE RECEIVED: 08/17/90

Soil Sample (Serigraph [UST]))

SEI ID: WL4194-1
Sample ID: SS #1 7-8'

GRAIN SIZE

Sieve Size	% Retained on Top
8	2.76
16	1.83
30	3.49
60	25.02
80	16.47
100	4.99
200	12.32
230	2.35

% Total Solids	96.5

NOTE: All results reported on a dry weight basis.

Reviewed & Approved by:

Rosemary L. Dineen
Laboratory Director

APPENDIX D

APPENDIX D

SERIGRAPH, INC.

ESTIMATE OF REMEDIATION COSTS

FOR LANDFILL DISPOSAL

	Unit Cost	Total Cost
Landfill disposal of 56 tons (40 yd^3) of contaminated soil	$ 27.15/ton	$1,520.40
Excavation and transportation of 56 tons of contaminated soil to Parkview Landfill	8.00/ton	448.00
Backfill and compaction of 56 tons of crushed gravel fill	9.86/ton	552.16
Aqua-Tech professional field services		500.00
4 soil analyses (TPH) per WDNR protocol to verify contamination removal	110.00/sample	440.00
Consulting with WDNR and Report Preparation (20 hours)	50.00/hour	500.00
	TOTAL	$3,960.56

APPENDIX E

APPENDIX E

SERIGRAPH, INC.

ESTIMATE OF REMEDIATION COSTS

FOR ASPHALT DISPOSAL

	Unit Cost	Total Cost
Collection and Analysis of additional soil samples per Payne and Dolan requirements		$3.335.00
Asphalt Plant disposal of 56 tons (40 yd^3) of contaminated soil	55.20/ton	3,091.20
Excavation and transportation of 56 tons of contaminated soil to Payne & Dolan, Inc.	9.50/ton	532.00
Backfill and compaction of 56 tons of crushed gravel fill	9.86/ton	552.16
Aqua-Tech professional field services		500.00
4 soil analyses (TPH) per WDNR protocol to verify contamination	110.00/sample	440.00
Consulting with WDNR and Report Preparation (10 hours)	50.00/hour	500.00
	TOTAL	$8,950.36

APPENDIX B

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Serigraph, Inc. PAGE 1 OF 2

DATE: 10/30/90

TIME: 2:00 pm

DIRECTION OF PHOTOGRAPH:

West

WEATHER CONDITIONS:

50°F

PHOTOGRAPHED BY:

Peter Pavalko

SAMPLE ID: (If Applicable):

N/A

DESCRIPTION: Pictured is the west wall of the excavation before the soil fell away from the foundation.

DATE: 10/30/90

TIME: 2:30 pm

DIRECTION OF PHOTOGRAPH:

West

WEATHER CONDITIONS:

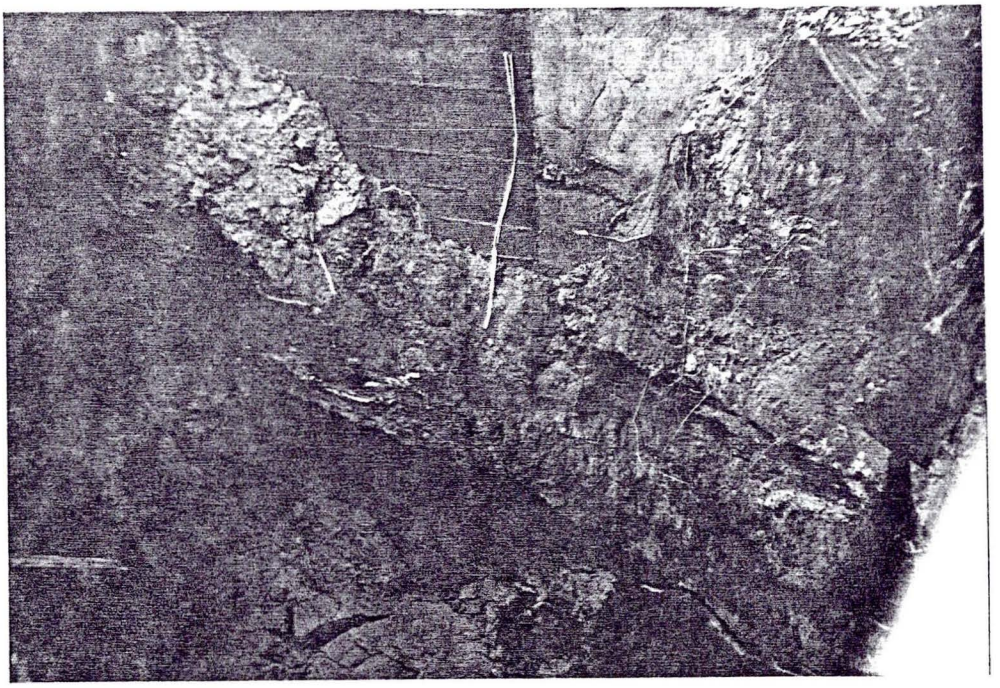
50°F

PHOTOGRAPHED BY:

Peter Pavalko

SAMPLE ID: (If Applicable):

N/A



DESCRIPTION: Pictured is the west wall of the excavation as portions of the contaminated soil fell into the pit.

FIELD PHOTOGRAPHY LOG SHEET

SITE NAME: Serigraph, Inc. PAGE 2 OF 2

DATE: 10/30/90

TIME: 3:00 pm

DIRECTION OF PHOTOGRAPH:

West

WEATHER CONDITIONS:

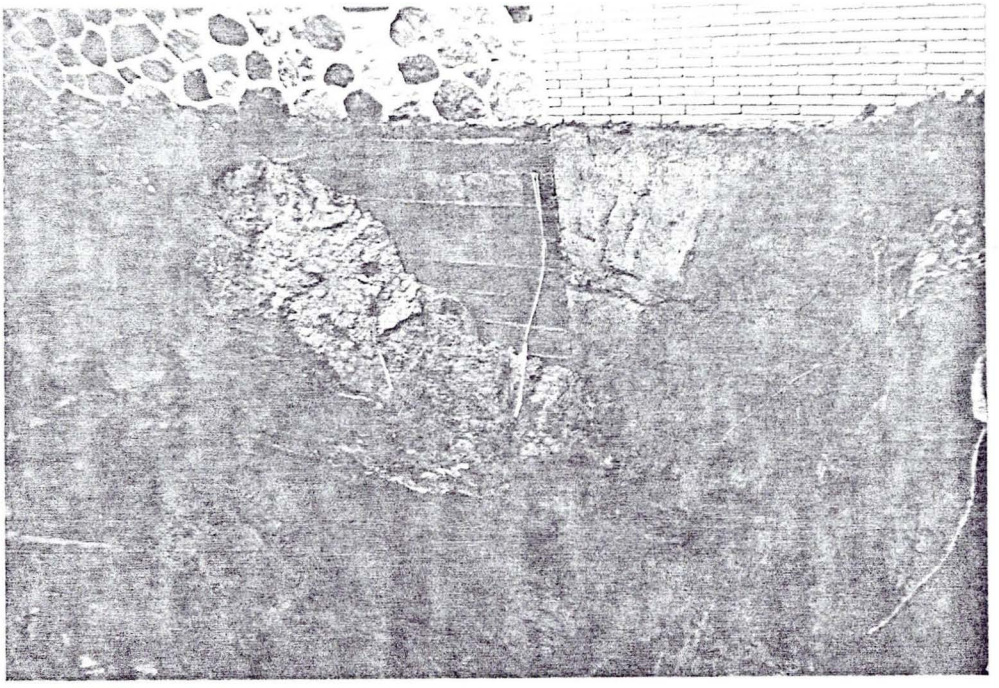
50°F

PHOTOGRAPHED BY:

Peter Pavalko

SAMPLE ID:
(If Applicable):

N/A



DESCRIPTION: Pictured is the west wall of the excavation/east wall of the foundation of the Serigraph building. By the end of the excavation all the soil had fallen off this wall.

APPENDIX C

AQUA-TECH
GROCE LABORATORIES

CORPORATE
Aqua-Tech, Inc.
140 S. Park St., Port Washington, WI 53074
(414) 284-5746 FAX (414) 284-0243

CHAIN OF CUSTODY RECORD

PROJ. NO. 93727 | PROJECT NAME: Seinpath - Excavation

SAMPLERS: (Signature) Peter C Pawalko

LAB NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	NO. OF CONTAINERS	% Solids	TPH Fuel Oil	REMARKS
83027	10-30-90	3:00			SS-F Floor 18.0'	1	X	X	HNU=0
28		3:10			SS-S Southwall 15'	1	X	X	HNU=0
29		3:20			SS-E Eastwall 15'	1	X	X	HNU=0
83030		3:30			SS-N Northwall 15'	1	X	X	HNU=0
Job #									
90.3222									

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time
Peter C Pawalko	10/31/90 9:00am		
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	
	11/1/90 1100	Donna Myers	

Remarks: Return signed Copy C.

Report to:
Name: Pete Pawalko
Street:
City: State: Zip:
Phone no. ( )
Remarks:

Distribution: White - Accompanies Shipment; Yellow - Laboratory File; Pink - Coordinator Field Files

NATIONAL ENVIRONMENTAL TESTING, INC.

NET Midwest, Inc.
Rockford Division
3548 35th Street
Rockford, IL 61109
Tel: (815) 874-2171
Fax: (815) 874-5622

ANALYTICAL REPORT

Mr. Pete Pavalko
AQUA-TECH INC.
140 South Park Street
Port Washington, WI 53074

11/16/1990

Job No: 90.3222

JOB DESCRIPTION: #93727 Serigraph-Excav.

Date Taken: SEE BELOW

Date Received: 11/01/1990

83027	SS-F Floor 18.0', Soil		10/30/1990	15:00
	Solids, Total	83.48		%
	Tot. Pet. Hydrocarbons	<10.		mg/kg
83028	SS-S South Wall 15', Soil		10/30/1990	15:10
	Solids, Total	78.37		%
	Tot. Pet. Hydrocarbons	<10.		mg/kg
83029	SS-E East Wall 15', Soil		10/30/1990	15:20
	Solids, Total	84.07		%
	Tot. Pet. Hydrocarbons	<10.		mg/kg
83030	SS-N North Wall 15', Soil		10/30/1990	15:30
	Solids, Total	82.03		%
	Tot. Pet. Hydrocarbons	<10.		mg/kg

Brian Wanner, Manager
Rockford Division

PAYNE & DOLAN, INC.

JAN 16 1991

December 27, 1990

Mr. Tom Ravn
Serigraph, Inc.
760 Indiana Ave.
West Bend, WI 53095

Dear Mr. Ravn:

The enclosed D.N.R. 440 Tracking Form has been forwarded to the Southeast D.N.R. L.U.S.T. Specialist.

If you have any questions, please call me at 414-524-1769.

Very truly yours,

PAYNE & DOLAN, INC.

Kurt Bechthold

Kurt Bechthold

KB:ehm
Enclosure

Kenosha Office
1740 120th Avenue
Kenosha, WI 53142
Phone: (414) 859-3081
Fax: (414) 859-3031

Post Office Box 781
N3 W23650 Badinger Road
Waukesha, WI 53187
Phone: (414) 524-1700
Fax: (414) 524-1845

State of Wisconsin
Department of Natural Resources

ASPHALT PLANT SOIL TRACKING FORM

Form 4400-120T 10-89

This form is required to be submitted by subchapters III and IV of ch. 144, Wis. Stats. Failure to submit this form may result in forfeitures of not less than $10 or more than $25,000 for each violation, pursuant to ss. 144.426, 144.469, 144.74(1), and 144.99, Wis. Stats., or fines of not less than $100 or more than $150,000 or imprisonment for not more than 10 years, or both, pursuant to s. 144.74(2), Wis. Stats. Each day of a continuing violation constitutes a separate violation.

Form to be completed by Asphalt Plant and sent to: L.U.S.T. Specialist at the appropriate District or Area Office.

Name of Plant
Payne & Dolan, Inc. - Control 4

Location
W240 N8097 Hillside Road, Sussex, WI 53089

Generator of Soils (Include site ID#)	Date of DNR Approval to Remediate Soils
Serigraph, Inc.	10/11/90
Date of Soil Transport	Method of Soil Storage
10/30/90	Concrete Pad - tarped
Type of Remediation Roasting _____ Incorporation X	Date of Roasting/Incorporation 11/27/90

ROASTING OPTION

Post Burn Sample Results (Two representative composite samples for every 300 cubic yards):

Sample Number	TPH
N/A	

Date of DNR Approval for Backfilling or Use as Common Fill
N/A

Location of Common Fill or Backfilling Site
N/A

Date of Backfilling or Use as Common Fill
N/A

Total Benzene Emissions in Pounds for Batch (Apply 50% destruction factor if no afterburner is being used)
.062035

Total Benzene Emissions for Plant for Calendar Year (Portable or fixed plant)
2.322

Actual tons shipped 124.07

$$124.07 \times 2{,}000 \times \frac{.5}{1{,}000{,}000} \times .5 = .062035$$

State of Wisconsin
Department of Natural Resources

Wash. Co

ASPHALT PLANT SOIL TRACKING FORM
Form 4400-120T 10-89

This form is required to be submitted by subchapters III and IV of ch. 144, Wis. Stats. Failure to submit this form may result in forfeitures of not less than $10 or more than $25,000 for each violation, pursuant to ss. 144.426, 144.469, 144.74(1), and 144.99, Wis. Stats., or fines of not less than $100 or more than $150,000 or imprisonment for not more than 10 years, or both, pursuant to s. 144.74(2), Wis. Stats. Each day of a continuing violation constitutes a separate violation.

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Name of Plant
Payne & Dolan, Inc. - Control 4

Location
W240 N8097 Hillside Road, Sussex, WI 53089

Generator of Soils (Include site ID#)	Date of DNR Approval to Remediate Soils
Serigraph, Inc.	10/11/90
Date of Soil Transport	Method of Soil Storage
10/30/90	Concrete Pad - tarped
Type of Remediation Roasting _____ Incorporation X	Date of Roasting/Incorporation 11/27/90

ROASTING OPTION

Post Burn Sample Results (Two representative composite samples for every 300 cubic yards):

Sample Number	TPH
N/A	

Date of DNR Approval for Backfilling or Use as Common Fill
N/A

Location of Common Fill or Backfilling Site
N/A

Date of Backfilling or Use as Common Fill
N/A

Total Benzene Emissions in Pounds for Batch (Apply 50% destruction factor if no afterburner is being used)
.062035

Total Benzene Emissions for Plant for Calendar Year (Portable or fixed plant)
2.322

Actual tons shipped 124.07

$$124.07 \times 2{,}000 \times \frac{.5}{1{,}000{,}000} \times .5 = .062035$$

10/12/90

State of Wisconsin
Department of Natural Resources

APPLICATION TO TREAT OR DISPOSE OF PETROLEUM CONTAMINATED
Form 4400-120

This form is required to be submitted by subchapters III and IV of ch. 144, Wis. Stats. Failure to complete and submit this form may lead to violations of these statutes and result in forfeitures of not less than $10 or more than $25,000 for each violation, pursuant to ss. 144.426, 144.469, 144.74(1), and 144.99, Wis. Stats., or fines of not less than $100 or more than $150,000 or imprisonment for not more than 10 years, or both, pursuant to s. 144.74(2), Wis. Stats. Each day of continuing violation constitutes a separate violation.

Sections I, II & IV must be filled out completely. Also, complete other sections that apply.

Return completed forms to: L.U.S.T. Specialist at the appropriate District or Area Office.

I. SOURCE OF SOIL

Facility Name: SERIGRAPH, INC.

Site ID# (For DNR use only):

Site Address: 760 INDIANA AVE

Contact Name: TOM RAVN

City, State, Zip Code: WEST BEND, WISCONSIN 53095

Telephone Number (Include Area Code): 414-334-9427

Section, Township and Range: SEC 13 T11N R19E

Facility Owner/Operator Signature:

II. CONTAMINATION DETAILS

Volume Soil (Cubic yards): APPROXIMATELY 30 YDS3

Certified DNR Lab Number: 999447240

Type of Petroleum Contamination (Circle one)
1 Gasoline 2 Diesel Fuel (3 #2 Fuel Oil) 4 Other

Lab Name: NET MIDWEST, ROCKFORD DIV.

Sampling Method (Brief description of method used to obtain representative sample of soil): USE OF A DECONTAMINATED STEEL SHOVEL WITH USE OF A PHOTOIONIZATION METER

Contaminant Concentration (Two representative composite samples for every 300 cubic yards of soil, in ppm.) Attach Laboratory Analyses

Sample No.	SS#1
Benzene	<500 ug/kg
Toluene	590 ug/kg
Ethylbenzene	<500 ug/kg
Total Xylenes	17,000 ug/kg
Total Petroleum Hydrocarbons as Gasoline	<10. mg/kg
Total Petroleum Hydrocarbons as Fuel Oil	18,900 mg/kg

Total Benzene In Soil To Be Remediated (Attach calculations): <1.0 lbs (0.02 lbs)

Total Amount of Petroleum Hydrocarbons In Soil to Be Remediated (Attach calculations): 75# lbs

Percent Soil Less Than 200 Mesh or 74 Microns: APPROXIMATELY 10%

Soil Classification Type (Sand, silt, clay, etc.): SAND

Anticipated Time Frame for Remediation
Start Date: ASAP End Date:

Method of Pulverizing Silt or Clay Soils: N/A

III. PROPOSED METHOD OF SOIL TREATMENT

1. Asphalt Plant/Other Type of Thermal Evaporation Unit

Name: PAYNE + DOLAN INC

Address: N3W23650 BADINGER Rd.

City, State, Zip Code: WAUKESHA WI 53187

(If portable, where will plant be located)

Plant Number and Model: EID#26818561O

DNR Facility Identification Number:

Contact Name: LARRY KRISTAPOVICH

Title: OR KURT BECHTHOLD

Telephone Number (Include area code): 414-524-1799

Site Telephone Number (Include area code): 414 334-9427

WDNR Air Quality Permit Number:

WPDES Permit Number:

s. 144.04 Plan Approval Number or Equivalent (Sealed ponds according to NR 213):

Distance to Nearest Residence/Business:

Burner Temperature During Soil Treatment:

Soil Residence Time in Burner During Treatment:

Anticipated Date Treatment Will be Completed:

(If stockpiled before being treated, all petroleum contaminated soil must be underlain and overlain by an impermeable membrane.)

Final Disposition of Treated Soil (How used, specific location):

Section 1 continued.

If soils will not be incorporated into asphalt, post burn soil testing is required. Soils will need to be sampled for the same parameters listed in Item II. Two composite soil samples are to be taken every 300 cubic yards of soil.

Highest Emission of VOC's Intended to Occur

_____ hourly* _____ daily*

Highest Emission of Benzene Intended to Occur

_____ daily* _____ total*

*Attach Calculations

2. Volatilization of Contaminants in Soil (Passive Evaporation)

Type of Impervious Surface

Curbing or Berms (Existing or proposed construction)

Thickness of Soil Undergoing Remediation (As placed)

Techniques to Cover During Inclement Weather

Method of Turning or Mixing Soil

Method of Field Sampling

Proposed Verification Method of Contaminant Content (Lab sampling)

Location and Size of Remediation Site

Distance to Nearest Residence/Business

Highest Emission of VOC's Intended to Occur

_____ hourly* _____ daily*

Highest Emission of Benzene Intended to Occur

_____ daily* _____ total*

*Attach Calculations

3. Disposal of Contaminated Soils at a Sanitary Landfill-NR 500

Name
PARKVIEW LANDFILL

License No.

Location
MENOMONEE FALLS, WI

Section 3 Continued

Contact Name
TOM RAVN

DNR Area Investigator Contacted

Name
JEFF FISCHER

Date
9-24-90

Volume to Be Disposed Of
APPROXIMATELY 30 Cubic Ya

Amount Total VOCs*
756 lbs

Amount Benzene*
< 1.0 lbs (0.02 lbs)

*Attach Calculations

Attach Map Showing Location of Approved Landfill

4. Soil Venting/Vacuum Extraction

Responsible Party

Consultant Responsible for System

Size and Rating (in cfm) of Blower

Distance to Nearest Residence/Business

VOC Discharge Rate From Pilot Testing

_____ lbs/day at _____ CFM

Benzene Discharge Rate From Pilot Testing

_____ lbs/day at _____ CFM

Note: This option may need an air pollution control permit. Any exceedan of an emission limit will require the installation of an activated carbon uni or similar treatment system to strip VOCs from the blower discharge.

5. Other Method of Soil Remediation

Please Describe the Method to Be Used

IV. OWNER/OPERATOR OR CONSULTANT SUBMITTING REQUEST

Company Name
AQUA-TECH, INC

Contact Name
BETH TIERNAN

Address
140 SOUTH PARK STREET

Telephone Number (include area code)
414-284-5746

City, State, Zip Code
PORT WASHINGTON, WI 53074

Signature
Beth Tiernan

LEAVE BLANK - DEPARTMENT OF NATURAL RESOURCES USE ONLY

APPLICATION Concurrance		Typed Name	Date
Yes	Air Management		10/12/90
YES	Solid Waste		10/11/90
			Date

Comments:

BENZENE CALC.

$$\frac{.5 \text{ ppm (max)}}{1{,}000{,}000} \times 2{,}000 \times 42 \text{ tons} \times .5 = .021 \text{ lbs} = 9.5 \text{ grams}$$

TPH CALC

$$\frac{18{,}900^{*}}{1{,}000{,}000} \times 2{,}000 \times 42 \text{ tons} \times .5 = 756 \text{ lbs}$$

* NOTE THAT THIS SAMPLE WAS TAKEN FROM WHAT APPEARED TO BE THE MOST GROSSLY CONTAMINATED ARE, DIRECTLY BENEATH THE UST, AND IS NOT REPRESENTATIVE OF THE LEVEL OF CONTAMINATION IN THE 30 yd^3 OF SOIL WHICH WILL BE TREATED.

AQUA-TECH INC.

October 5, 1990

Signed & sent to
Greg P. 10-11-90

Mr. Jeff Fischer
Southeast District
Department of Natural Resources
2300 N. Dr. Martin Luther King, Jr. Drive
Milwaukee, Wisconsin 53212

Dear Mr. Fischer:

Enclosed is the application form for the disposal of petroleum contaminated soil, in reference to Aqua-Tech's Project 93727 for Serigraph, Inc.

A representative sample was taken by use of a decontaminated steel shovel. Laboratory analysis finds this material to be non-hazardous. We would like you to review these forms for disposal approval at Payne & Dolan, Inc. or Parkview Landfill. Your promptness in this matter would be greatly appreciated, for we would like to begin this project as soon as possible. The analytical data has been submitted to Parkview Landfill for their approval process. Analytical data will be submitted to Payne & Dolan after the collection of a soil sample for PCBs is completed.

Confirmation of acceptance should be forwarded to the following:

Ms. Peggy Slind
Parkview Landfill
N96 W13475 County Line Road
Menomonee Falls, WI 53051

Mr. Glenn Elliott
Payne & Dolan, Inc.
P. O. Box 781
Waukesha, WI 53187

Mr. Mike Koepke
Aqua-Tech, Inc.
140 South Park Street
Port Washington, Wisconsin 53074

Any questions, please do not hesitate to contact me.

Sincerely,

AQUA-TECH, INC.

Pete Pavalko
Environmental Assessment Specialist

PP/jls

ENC.

CORPORATE
140 S. Park St., Port Washington, WI 53074
[414] 284-5746 FAX [414] 284-0243

TREATMENT FACILITY
340 Robinson Rd. Greer, S.C. 29651
[803] 877-1048 FAX [803] 877-1872

NET NATIONAL ENVIRONMENTAL TESTING, INC.

NET Midwest, Inc.
Rockford Division
3548 35th Street
Rockford, IL 61109
Tel: (815) 874-2171
Fax: (815) 874-5822

ANALYTICAL REPORT

Mr. Pete Pavalko
AQUA-TECH INC.
140 South Park Street
Port Washington, WI 53074

09/25/1990

Sample No: 79505
Job No: 90.2103

SAMPLE DESCRIPTION: SS#1 7-8', Composite Soil
#93727 Serigraph UST

Date Taken: 08/15/1990

Date Received: 08/17/1990

Name	Result	Units	Date Analyzed
Tot. Pet. Hydrocarbons	18,900.(comp. to Diesel)	mg/kg	08/29/90

Brian Wanner, Manager
Rockford Division

NATIONAL ENVIRONMENTAL TESTING, INC.

NET Midwest, Inc.
Rockford Division
3548 35th Street
Rockford, IL 61109
Tel: (815) 874-2171
Fax: (815) 874-5622

ANALYTICAL REPORT

Mr. Pete Pavalko
AQUA-TECH INC.
140 South Park Street
Port Washington, WI 53074

09/25/1990

Sample No: 79505
Job No: 90.2103

SAMPLE DESCRIPTION: SS#1 7-8', Composite Soil
#93727 Serigraph UST

Date Taken: 08/15/1990

Date Received: 08/17/1990

UST VOLATILE COMPOUNDS - 8240

Test Name	Result	Units	Date Analyzed
Benzene	<500.	ug/kg	08/29/90
Ethylbenzene	<500.	ug/kg	08/29/90
Toluene	590.	ug/kg	08/29/90
Xylenes	17,000.	ug/kg	08/29/90

Brian Wanner, Manager
Rockford Division

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Fax: (815) 874-6622

ANALYTICAL REPORT

Mr. Pete Pavalko
AQUA-TECH INC.
140 South Park Street
Port Washington, WI 53074

09/25/1990

Sample No: 79505
Job No: 90.2103

SAMPLE DESCRIPTION: SS#1 7-8', Composite Soil
#93727 Serigraph UST

Date Taken: 08/15/1990

Date Received: 08/17/1990

Test Name	Result	Units	Date Analyzed
Solids, Total	88.62	%	08/24/90
Paint Filter	Y-Contains no liquid		08/29/90
Lead	12.5	ug/g	09/07/90
Corrosivity (pH)	7.84	units	08/29/90
Ignitability (Flash Point)	No Flash @ 210.	Degree F	08/29/90
EP Tox - Lead	0.08	mg/L	09/08/90

Brian Wanner, Manager
Rockford Division

NET NATIONAL ENVIRONMENTAL TESTING, INC.

NET Midwest, Inc.
Rockford Division
3648 35th Street
Rockford, IL 61109
Tel: (815) 874-2171
Fax: (815) 874-5622

ANALYTICAL REPORT

Mr. Pete Pavalko
AQUA-TECH INC.
140 South Park Street
Port Washington, WI 53074

09/25/1990

Sample No: 79506
Job No: 90.2103

SAMPLE DESCRIPTION: SS#2 16', Composite Soil
#93727 Serigraph UST

Date Taken: 08/15/1990

Date Received: 08/17/1990

Test Name	Result	Units	Date Analyzed
Solids, Total	81.28	%	08/24/90
Tot. Pet. Hydrocarbons	<10.	mg/kg	08/29/90

Brian Wanner, Manager
Rockford Division

WANSON ENVIRONMENTAL INC.

3150 North Brookfield Road
Brookfield, Wisconsin 53045
telephone (414) 783-6111
facsimile (414) 783-5752

AIHA Accreditation #352
WDNR Certification #268181760

ANALYTICAL REPORT

REPORT NUMBER: B2534

Aqua-Tech, Inc.
140 South Park Street
Port Washington, WI 53704

Attn: Mr. Pete Pavalko

DATE: September 19, 1990
PURCHASE ORDER:
SEI JOB NO: WL3947
DATE COLLECTED: 08/15/90
DATE RECEIVED: 08/17/90

Soil Sample (Serigraph [UST]))

SEI ID: WL4194-1
Sample ID: SS #1 7-8'

GRAIN SIZE

Sieve Size	% Retained on Top
8	2.76
16	1.83
30	3.49
60	25.02
80	16.47
100	4.99
200	12.32
230	2.35

% Total Solids	96.5

NOTE: All results reported on a dry weight basis.

Reviewed & Approved by:

Rosemary L. Dineen
Laboratory Director

State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Carroll D. Besadny
Secretary

Box 12436
Milwaukee, Wisconsin 53212
Fax: (414) 263-8483

August 17, 1990

File Ref:

Tom Raven
760 Indiana Ave.
West Bend Wisconsin 53095

Dear Mr. Raven:

RE: Serigraph Corporation/760 Indiana Ave. West Bend WI. 53095

The Wisconsin Department of Natural Resources (WDNR) has been notified that petroleum contamination was discovered during the removal of one 2000 gallon under ground storage tank at the above referenced location. Jeff Fischer, the Leaking Underground Storage Tank (LUST) Project Manager for your area, may be reached at the above address or at (414) 263-8655. Based on the site specific information provided, this case has been assigned to the Medium Priority Rank group. The purpose of this letter is to inform you of your legal responsibilities to address this situation.

Releases from underground storage tanks regulated under Subtitle I of the Resource Conservation and Recovery Act require compliance with the provisions of 40 CFR Parts 280 and 281. The Environmental Protection Agency (EPA) has the authority to take enforcement action at any time, but will generally not take action against parties cooperating with the state. The WDNR proceeds in LUST cases under the authority of s.144.76, Wisconsin Statutes, commonly referred to as Wisconsin's Hazardous Substance Spill Law. The definition of "hazardous substance" as found in s.144.01(4m), Wisconsin Statutes, includes petroleum products.

> Wisconsin Statute 144.76(2a) states: "A person who possesses or controls a hazardous substance which is discharged or who causes the discharge of a hazardous substance shall notify the Department immediately of any discharge not exempted under sub.(9)"
>
> Wisconsin Statute 144.76(3) states: "A person who possesses or controls a hazardous substance which is discharged or who causes the discharge of a hazardous substance shall take the actions necessary to restore the environment to the extent practicable and minimize the harmful effects from the discharge to the air, lands, or waters of this state."

Because you possess or control a hazardous substance which has been released to the environment, the Department identifies you as the party responsible for taking the actions necessary to restore the environment. You are required to:

1. Conduct an investigation to determine the extent of soil and groundwater contamination.

2. Remediate all environmental impacts caused by this situation.

Final documentation of the investigation and cleanup should be prepared according to the guidance enclosed and sent to this office on completion of the project. Remedial actions must adequately cleanup contaminated soil and/or groundwater to current WDNR guidelines and/or standards. All product, soil, wastewater, and sludge must be disposed of in compliance with all applicable federal, state and local laws and regulations. Because the Department is experiencing a backlog of leaking underground storage tank cases of emergency status and your case is not currently ranked as an emergency, your submittals will be reviewed as time permits. Investigation and cleanup should not, however, be delayed pending WDNR review of your case.

You are encouraged to contact the Department of Industry, Labor, and Human Relations (DILHR), the state agency that administers the Petroleum Environmental Cleanup Fund (PECFA). This fund may reimburse you for eligible costs associated with the remedial investigation and clean up. DILHR should be contacted at (608) 267-4545 to obtain current information regarding the PECFA program.

Your cooperation in this matter will be appreciated. Please be aware that your ability to use PECFA funds is dependent on your cooperation in adequately addressing this problem. If you have any questions, please contact your WDNR Project Manager.

Sincerely

Jeffrey L. Fischer
Hydrogeologist, Environmental Response Section

c: SED Case File

Enclosures: Petroleum Tank Release Remedial Investigation Report
Application to Treat or Dispose of Petroleum Contaminated Soil

TELEPHONE LOG

SITE NAME/ID#: Serigraph Corporation DATE/TIME: 8/15/90 2:15 PM

CONTACT: Kendall Joyner TELEPHONE NUMBER: (608) 275-3297

COMPANY / AGENCY: Southern District - WDNR

SUMMARY:

Miles Mickelson, DILHR, reported a problem UST at this facility.

Product: heating oil (commercial use)

Facility: Serigraph Corporation
760 Indiana Avenue
West Bend, WI

Contact: Tom Raven

No add'l info given.

2,000 gallon Fuel #2 oil. Pumped in Dec. 1,800 gallons
Pulled tank 8-15-90. Holes in south & north End of
tanks Aqua Teck Detected cont. Sent soil samples
To lab. moist soil At 16'

B. Burnett

Department of Natural Resources

LEAKING UNDERGROUND STORAGE TANK (Case Tracking)
Form 4400-146 Rev. 2-93

RECEIVED
MAR 29 1999
PECFA SITE REVIEW
MILWAUKEE OFFICE

N. KOCHIS

UID Number: 936 FID Number: 267083850 PMN Number:

County: WASHINGTON
Site Name: SERIGRAPH CORPORATION
Address: 760 INDIANA AVE

Initial Contact Date: 8.15.90
Date RPLetter Sent: 8.17.90
Date Closure Approved: 7.18.94

Municipality: WEST BEND, WI
Legal Descript.: SE 1/4 SW 1/4 sec. 13 - 1 N R 19 E W
Lat.: Long.:

Person/Firm Reporting: WENDELL WOJNER, WDNR SED, MILES MICKELSON, DILHR
Phone Number: (608) 275-3297

Priority Screening
___ 1 = High
X 2 = Medium
___ 3 = Low
___ 4 = Unknown

Scoring Criteria
1.
2.
3.
4.
5.
Score: Init.: Date: ___/___/___

Funding Source
X 1 = RP
___ 2 = LTF
___ 3 = EF
___ 4 = Other

Effective Date
___/___/___
___/___/___
___/___/___
___/___/___

LUST Trust Eligible
___ 1 = Federal
___ 2 = Non-Federal

Case Status

	Start Date	End Date
___ (F) Free Product Removal	___/___/___	___/___/___
___ (E) RP Emergency Response	___/___/___	___/___/___
___ (R) LTF Emergency Response	___/___/___	___/___/___
___ (L) Long Term Monitoring	___/___/___	___/___/___

Responsible Party
Company Name: SERIGRAPH CORP.
Contact Person: TOM RAVN
Address: 760 INDIANA AVE
W. BEND, WI 53095
Phone Number: (414) 335-7343
CC's:

Impacts
Enter "P" for potential and "K" for known
___ (1) Fire/Explosion Threat
___ (2) Contaminated Private Well(s) ___ # of Wells
___ (3) Contaminated Public Well
___ (4) Groundwater Contamination
K (5) Soil Contamination
___ (6) Other:
___ (7) Surface Water Impacts
___ (9) Floating Product

Consultant
Company Name: ADVENT
Contact Name: PETER PAVALKO
Address: 6100 W. EXECUTIVE DR. SUITE E
MEQUON WI 53092-
Telephone: (414) 238-1998

Substances | **# Tank(s)** | **Size**

___ (1) Leaded Gas		
___ (2) Unleaded Gas		
___ (3) Diesel		
X (4) Fuel Oil	1	2000
___ (5) Unkwn Hydrocrbn		
___ (8) Other:		
___ (12) Waste Oil		

REMARKS: Fuel oil tank removed 8-15-90

UIDA

SITE NAME

PROJECT MGR

ACTION CODES

02 = RP Letter Sent *
03 = Notice of Noncompliance *
04 = Enforcement Conference *
14 = Notice of Violation *
18 Admin Order Issued *
19 Admin Order Modified
20 = Admin. Order Cancelled
21 = Contest Case Hearing *
23 = Referral to DOJ *
30 = Notice to Proceed *
31 = Tnk Cls/SA Workplan Rec'd
32 = Tnk Cls/SA Workplan Appvd
33 = Tank Cls/SA Report Rec'd
34 = Tank Cls/SA Report Appvd
35 = SI Workplan Rec'd *
36 = SI Workplan Appvd *
37 = SI Report R[illegible] *
38 = SI Report Appvd *
39 = RA Workplan Rec'd *
40 = RA Workplan Appvd *
41 = RA Report Rec'd *
42 = RA Report Appvd *
43 = Status Reports *
44 Form 4 Received
45 = Form 4 Approved
46 = Form 4 Denied
47 = PECFA Reimbursement
48 = Free Product Recovery *
49 = Alternate Water Supplied *
60 Consent Order *

NOTE: * = EPA Reporting Requirements

ACTION UPDATES

Entered in Tracking	Code	Action Date (Received / Sent)	Compliance Due Date	Comment	Compliance Achieved
	41	1/16/91	/ /		/ /
	37	1/16/91	/ /		/ /
		/ /	/ /		
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PRIORITY SCREENING WORKSHEET

HIGH FACTORS: (DEFINITION: Any case which presents an actual threat to human health, or has a high potential of causing a threat to human health and property; and/or any case which has caused or has a high potential of causing substantial impacts to the soil, waters and air of the State of Wisconsin).

EMERGENCY FACTORS:

___ Contaminated private or public well >NR 140 enf. std.
___ Explosive or toxic vapors in structures
___ Threat of fire

HIGH FACTORS:

___ Floating product (including sheen)
___ GW contamination (>140 enf. std.)
___ Impacted surface water - - wetland, trout stream, etc. impacted
___ Saturated soil contamination posing a risk to groundwater

MEDIUM FACTORS: (DEFINITION: Any case which does not appear to be an immediate threat to human health or vital natural resources but which shows levels of contamination that may cause substantial environmental impacts if left unaddressed.)

___ Moderate soil contamination with potential for impacting groundwater.
___ Impacted surface water - - no critical habitat threats.
___ Groundwater contamination >NR 140 PAL.

LOW FACTORS: (DEFINITION: Any case where contamination has been documented, but which presents limited potential for immediate threat to human health and vital natural resources.)

___ Soil contamination which appears to have a limited potential for impacting groundwater.
___ Initial Remedial action has substantially reduced environmental threat.

UNKNOWN FACTORS: (DEFINITION: Any case where some indication of contamination is present, but due to incomplete or inaccurate information the level of threat to human health or the environment can not be assessed at this time.)

___ Inadequate information to assign a high, medium, or low ranking.

NUMERICAL LUST SCORING WORKSHEET

1. GROUNDWATER & SOILS:

POINTS:		Points:	
20	Municipal well impacted	10	Major soil and/or gw >ES within 1200' of a public well
18	> 6 private wells impacted	8	Major soil and/or gw >ES within 1200' of one or more private wells
16	4 - 6 private wells impacted	6	Groundwater contamination >ES
14	2 - 3 private wells impacted	4	Groundwater contamination <ES
12	1 private well impacted	2	Soil contamination

For purposes of this scoring, private well includes any non-municipal water supply system (e.g. non-community and other than municipal)

2. EXPLOSIVE OR TOXIC VAPORS:

POINTS: CONFIRMED	POTENTIAL	
20	10	Explosive levels in a residence or building
16	8	Explosive levels in a sewer or other confined space
12	6	Toxic levels in a residence or building

NOTE: Explosive levels determined to be >20% LEL as per an explosivity meter, toxicity levels are based on OSHA permissible exposure limits (PEL's)

3. SURFACE WATER IMPACTS:

POINTS: CONFIRMED	POTENTIAL	
14	7	Visible sheen or product on sensitive surface water environment (e.g. wetland, trout stream)
10	5	Visible sheen or product on non-sensitive surface water area.
6	3	Exceedance of NR 102, 103 or 104 surface water quality standards.

Request assistance from District Water Resources staff in evaluating surface water impacts.

4. HYDROGEOLOGIC SETTING:

Points:

12 Permeable stratigraphy (gravel, sand, fractured bedrock or utilities capable of intercepting and directing flow) and groundwater within 25 feet of the ground surface.
10 Permeable stratigraphy and groundwater greater than 25 feet below ground surface.
8 Moderately permeable stratigraphy (silty sands, silty gravel, clayey sands) and groundwater within 25 feet of ground surface.
6 Moderately permeable stratigraphy and groundwater greater than 25 feet below ground surface.
4 Low permeability stratigraphy (silt, clayey silt, sand clays) and groundwater within 25 feet of ground surface.
2 Low permeability stratigraphy and groundwater greater than 25 feet below ground surface.

TYPE OF PRODUCT:

POINTS: FREE PRODUCT	DISSOLVED PRODUCT	
12	3	Gasoline, mixture of gasoline and other products, other light petroleum products
12	3	Diesel, fuel oil

#936 + 1408

REV. 10/89

DEPARTMENT OF NATURAL RESOURCES
LEAKING UNDERGROUND STORAGE TANK

COMPUTER TRACKING
FORM 4400

PMN#: _____ FID#: 267083850

PROJECT MGR: ~~FISCHER~~ J. KOCHIS

SUPPORT PERSON: _____

DISTRICT: SED COUNTY: Washington HNDI: ____

SITE NAME: Serigraph Corporation

ADDRESS: 760 Indiana Ave.

West Bend, WI 53095 TN CITY VIL

LEGAL DESC: ___1/4 ___1/4 SEC ___T ___R ___E/W

DATE OF INITIAL CONTACT: 8/15/90 (mo day yr)

DATE OF RP LETTER: 08/17/90 (mo day yr)
date we send it out

DATE SITE CLOSURE APPROVED: ___/___/___ (mo day yr)

LUST TRUST ELIGIBLE: (x)
___ 1 = FEDERAL
___ 2 = NON-FEDERAL

STATUS: (X)
___ 1 = STATE LEAD
X 2 = RP LEAD

PRIORITY SCREENING: (X)
___ 1 = HIGH SCORE: ____
X 2 = MEDIUM
___ 3 = LOW
___ 4 = UNKNOWN

(see worksheet on back)

FUNDING SOURCE: (X)
X 1 = RESPONSIBLE PARTY
___ 2 = LUST TRUST FUND
___ 3 = ENVIRONMENTAL RESPONSE FUND
___ 4 = SUPER FUND
___ 5 = NONE
___ 6 = OTHER _____

(X AS APPROPRIATE)	DATE INITIATED (MO DAY YR)	DATE COMPLETED (MO DAY YR)	COMMENTS:
___ NO ACTION TAKEN			
___ EMERGENCY			
___ EMERGENCY RESPONSE			
___ FIELD INVESTIGATION			
X REMEDIAL ACTION	8/15/90		Pulled TANK
___ LONG TERM MONITORING			

FIRM OR PERSON RESPONSIBLE: Serigraph INC

send IR letter

CONTACT: Tom Raven

ADDRESS: 760 Indiana Ave
West Bend Wis. 53095

PHONE: 414/334-9427
(list additional on separate list & attach)

CONSULTANT: Aqua Tech

CONTACT: Vance Jackson/Pete

ADDRESS: _____

PHONE: 414/784-5746

AMOUNT COMMITTED: $____.___ AMOUNT SPENT: $____.___
(list additional on separate list & attach)

PECFA REVIEW REQUESTED:(X) ___YES ___NO
Petroleum environ cleanup Fund

they DNR from

DATE PECFA REQUEST RECEIVED:(mo day yr) ___/___/___
(Form 4)

	KNOWN IMPACTS:(x)	POTENTIAL IMPACTS:(X)
FIRE/EXPLOSION THREAT	___	___
CONTAMINATED PRIVATE WELL	___	___
CONTAMINATED PUBLIC WELL	___	___
GROUNDWATER CONTAMINATION	___	XX
SOIL CONTAMINATION	XX	___
OTHER: _____	___	___

SUBSTANCES:(X) QUANTITY DISCHARGED:(gals) _____

___ LEADED GAS ___ VOCS
___ UNLEADED GAS ___ PESTICIDE
___ DIESEL
X FUEL OIL 2,000 GALLONS
___ UNKNOWN HYDROCARBONS
___ OTHER _____

ENFORCEMENT ACTION TAKEN

01=INF. CONTACT,RESP INITIATED
02=RP LETTER,RESP INITIATED
03=NTC OF NON COMPLIANCE
06=INSPECTION LETTER
07=RESPONSE RECEIVED
11=CLOSE OUT
14=NOTICE OF VIOLATION
18=ADMIN. ORDER FINAL
20=ADMIN. ORDER CANCELLED
23=REFERRAL TO DOJ
25=REFERRAL TO EPA
99=OTHER ACTION: _____

ACTION (code from above)	DATE (mo/day/yr)	COMMENT:
07	07/30/91	Application to treat contam. soils rec'd
07	09/11/91	"Envt'l Assess. Rept." rec'd
~~cable~~	11/13/91	Letter approving Monitoring Plan
07	12/14/91	Additional Soil Remediation

(for additional action codes see instructions/list additional on separate list and attach)

OVER ALL CASE COMMENT: Recieved Notification of Problems from Miles Mickelson DNR LR 8-15-9
Moisture 16%. SANDY SOIL

LUST CASE PRIORITY SCREENING WORKSHEET

GH FACTORS: (DEFINITION: Any case which presents an actual threat to human health, or has a high potential of causing a threat human health and property; and/or any case which has caused or has a high potential of causing substantial impacts to the soil ters and air of the State of Wisconsin)

GH FACTORS:

___ Contaminated private or public well >NR140 enf. std.
___ Explosive or toxic vapors in structures
___ Threat of fire

medium

HIGH OR MEDIUM FACTORS: (write in choice of high or medium) only one

___ Floating product (medium if no receptors within 1 mile)
___ Known gw contamination (private or public well <140 enf. std.
___ Impacted surface water--wetland, trout stream, etc. impacted
___ saturated soil contamination

DIUM FACTORS: (DEFINITION: Any case which does not appear to be an immediate threat to human health or vital natural resources t which shows levels of contamination that may cause substantial environmental impacts if left unaddressed.)

___ Moderate soil contamination with moderate potential for impacting groundwater.
___ Impacted surface water--no critical habitat threats.

W FACTORS: (DEFINITION: Any case where contamination has been documented, but which presents limited potential for any mediate threat to human health and vital natural resources.)

___ Soil contamination which appears to have a limited potential for impacting groundwater.
___ Initial remedial action has substantially reduced environmental threat.

Unknown

KNOWN FACTOR: (DEFINITION: Any case where some indication of contamination is present, but due to incomplete or accurate information the level of threat to human health or the environment can not be assessed at this time.)

___ Inadequate information to assign a high, medium, or low ranking.

ERALL RANKING: The screening rank for the site along with the date of ranking. This may be updated when additional informa- n is received. Special circumstances for a particular case may be taken into account in the comment section. The District coordinator may independently set the ranking of a site based upon "special circumstances."

cle one & date, indicate in priority screening box opposite side _____HIGH_____MEDIUM_____LOW_____UNKNOWN

MENT:_____

NUMERICAL LUST SCORING WORKSHEET (complete for LUST cases ranked HIGH)

GROUNDWATER & SOILS: (circle one)

POINTS	Documented Petroleum Contamination:	POINTS	
20	Municipal well	8	Soil & gw within 1200' of a public well
18	>6 private wells	6	Soil & gw within 1200' of one or more private wells
16	4 - 6 private wells	4	GW contamination, no wells within 1200'
14	2 - 3 private wells	2	Soil contamination
12	1 private well		

EXPLOSIVE OR TOXIC VAPORS: (circle one)

POINTS CONFIRMED	POTENTIAL	
20	10	Explosive levels in a residence or building
16	8	Explosive levels in a sewer or structure
12	6	Toxic levels in a residence or building

Note: Explosive levels determined to be >20% LEL as per an explosivity meter; toxicity levels are based on OSHA permissible exposure limits (PEL)

HYDROGEOLOGIC SETTING: (circle one)

POINTS	
12	Highly permeable sub-soils (gravel, well sorted sand, fractured bedrock or utilities capable of intercepting and directing flow) and groundwater within 25 feet of the ground surface.
10	Highly permeable sub-soils and groundwater more than 25 feet below ground surface.
8	Moderately permeable sub-soils (silty sands, silty gravel, clayey sands) and groundwater within 25 feet of ground surface
6	Moderately permeable sub-soils and groundwater greater than 25 feet below ground surface.
4	Low permeability sub-soils (silt, clayey silt, sand clays) and groundwater within 25 feet of ground surface.
2	Low permeability sub-soils and groundwater greater than 25 feet below ground surface.

TYPE OF PRODUCT: (circle one)

POINTS	NOTE: Add 4 points if free product is present. (score in parentheses)
8 (12)	Gasoline, mixture of gasoline and other products, other light petroleum products.
6 (10)	Diesel, fuel oil
2 (6)	Bunker oil, other heavy oils or crude fractions